CONSENT NO.	BB3006701

ASIANTAETH YR AMGYLCHEDD CYMRU
ENVIRONMENT AGENCY WALES

ENVIRONMENT AGENCY

WATER RESOURCES ACT 1991

(AS AMENDED BY ENVIRONMENT ACT 1995)

NOTICE OF MODIFICATION OF CONSENT TO DISCHARGE

TO: **Environment Quality Scientist**
Dwr Cymru Cyfyngedig
Plas y Ffynnon
Cambrian Way
Brecon
Powys LD3 7HP

WHEREAS the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) **VARIED ITS CONSENT** to the making of a discharge of **SEWAGE EFFLUENT** on the 30th day of January 1985

FROM: **Penybont Sewage Treatment Works**

the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) hereby **GIVES NOTICE** the **CONSENT BB3006701** is hereby modified, and that for the purposes of implementing the requirements of the Urban Waste Water Treatment Regulations 1994, the following specified conditions are appended as **Secondary Treated Sewage Effluent SCHEDULE BB3006701 01/U**, as follows:

U0 (a) The Consent Holder shall comply with the Urban Waste Water Treatment (England and Wales) Regulations 1994 ('the Regulations').

(b) For the purpose of conditions U1 and U2 below, interpretations and references to a numbered regulation or Schedule shall have the meaning as in the Regulations, unless otherwise indicated.

U1 (a) The Discharge derives from an agglomeration with a population equivalent of more than 15,000 discharging to freshwaters.

(b) The Consent Holder shall inform the Agency in writing of any change, or proposed change, to the population equivalent such as would make a material change to the application of the Regulations and shall, on request, inform the Agency in writing of the actual population equivalent.

Asiantaeth yr Amgylchedd Cymru
Glan Tawe, 154 Fford Sant Helen, Abertawe, SA1 4DF, Ffon:01792 645300 Ffacs:01792 648652

Environment Agency Wales
Glan Tawe, 154 St HelensRoad, swansea, SA1 4DF, Tel:01792 645300 Fax:01792 648652

(c) The Discharge shall be subject to Regulation 5(1) and shall satisfy the relevant requirements of Part I of Schedule 3.

U2 (a) The Consent Holder shall provide apparatus for the purpose of:
(i) measuring or recording the volume, rate of flow, nature, composition or temperature, and
(ii) collecting samples of any waste water,
as is necessary to ensure compliance with paragraph (b) below.

(b) The Consent Holder shall monitor the Discharge to verify compliance with the requirements of condition U1(c) above in accordance with control procedures as set out in Part II of Schedule 3.

(c) The Consent Holder shall provide to the Agency any information collected in complying with paragraph (b) above in a manner agreed with the Agency.

U3 Condition U2 above shall apply for the purpose of verifying compliance with the Directive from the date as specified in the relevant paragraph of Regulation 5 as incorporated into this consent under condition U1(c) above.

U4 (a) An appropriately labelled sample point shall be provided and maintained at National Grid Reference SS 87708 76776 , as shown marked 'Influent Sampling point No.1 the attached Plan BB3006701 01/ U, or some other point as agreed in writing with the Agency, so that a representative sample of the Influent may be obtained.

(b) An appropriately labelled sample point shall be provided and maintained at National Grid Reference SS 87648 76742, as shown marked 'Final Effluent Sample point ' on the attached Plan BB3006701 01/ U, or some other point as agreed in writing with the Agency, so that a representative sample of the Discharge may be obtained.

Subject to the provisions of Paragraphs 7 and 8 of Schedule 10 of the Water Resources Act 1991, no notice shall be served by the Agency, which alters the effect of modifications made by this notice, without the agreement in writing of the consent holder, during a period of 4 years from the date this notice is served.

Dated this 21st day of December 2000

Signed .....

Team Leader Water Quality Consents

NOTE All other conditions of the consent remain in force. Consent No. BB3006701 is updated accordingly

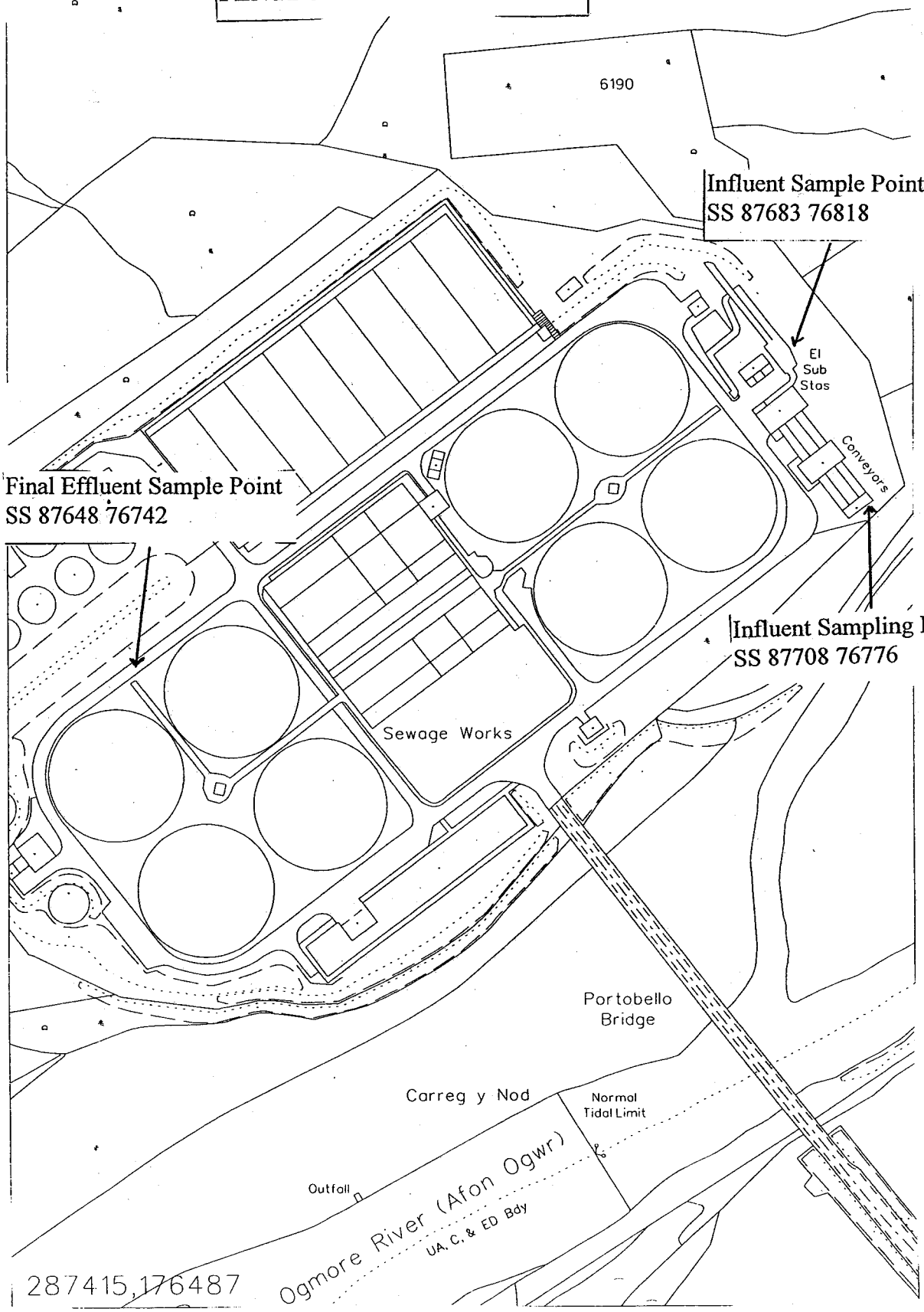
Asiantaeth yr Amgylchedd Cymru
Glan Tawe, 154 Fford Sant Helen, Abertawe, SA1 4DF. Ffon: 01792 645300 Ffacs: 01792 648652

Environment Agency Wales
Glan Tawe, 154 St. Helens Road, Swansea, SA1 4DF. Tel: 01792 645300 Fax: 01792 648652.

PLAN BB3006701 01/4

BRIDGEND CO CONST AND A

PENYBONT WWTW - UWWTD



DŴR CYMRU
WELSH WATER

Gowerton Waste Water Treatment Works
Victoria Road
Gowerton
Swansea SA4 3AB

Fax: +44(0)1792 872604
Web site: www.dwrcymru.com

Gwaith Trin Dwr Gwastraff Tregwyr
Heol Victoria
Tre Gwyr
Abertawe SA4 3AB

Ffacs: +44(0)1792 872604
Safle gwe: www.dwrcymru.com

Barry Williams,
Customer Contact Department,
Environment Agency Wales,
Glan Tawe,
154 St Helens Road,
Swansea.
SA1 4DF.

22nd November 2002

Tel 01792 511828

Dear Barry,

Discharge Consent Application – Penybont WWTW

Please find enclose an application for variation of consent for Penybont WWTW final effluent (BB3006701) and settled storm discharge(BW3206201).

I enclose a cheque for £1376

Receipt no. 0190
cheque no. 003679

E.A.
£ 688.00
25 NOV 2002
PAID
WELSH REGION

Yours sincerely,

Dr Lewis Keil
Scientist - Wastewater

Receipt no. 0191
cheque no. 003678.

E.A.
£ 688.00
25 NOV 2002
PAID
WELSH REGION

6. Will the proposed discharge be pumped or made under gravity? (please circle) **Gravity**

If pumped, please state the maximum pump rate in l/sec: l/s

For proposed discharges of sewage in storm or emergency conditions:

7. Please confirm here that you have completed and enclosed both Annexes 1 and 2: *Tick* ☐

8. Please state:

Population served (head)	
Consumption (l/head/day) default = 180	
Infiltration (m^3/day)	
Industrial effluent flow (m^3/day)	
Dry Weather Flow (m^3/day)	
Soc A (l/sec)	
Predicted spill frequency (per annum)	

IMPORTANT NOTES FOR ALL CONSENT APPLICATIONS:

1. **Whoever signs the declaration on the main application form takes responsibility for the discharge, and will become the registered consent holder, if consent is given. In the case of a 'body corporate' (eg a public limited company ('plc'), limited, company, local authority), the 'body corporate' will be the registered consent holder, and the person with the delegated authority to sign on behalf of the 'body corporate' should give their job title.**

2. **Agents making an application on behalf of a client, must attach their clients written authority.**

3. **If the name and/or address of the applicant changes after submission of this application to the Environment Agency, the applicant must inform the Agency in writing.**

Pen y Bont Consent Application

Background

Penybont it a year three output for the AMP 3 program. The existing consent is to be reviewed to include UV disinfection and an ammonia consent. In order to meet these new requirements the works is to undergo refurbishment and extension to enable to biological process to achieve the required standard. This will include replacement of the surface aerators with a fine bubble aeration system and adding a new final settlement tank. UV disinfection plant will also be added.

The cost of the scheme to meet the new consent will be approximately 4 million pounds.

Enclosed

Main Application

Schedule 10
Annex 1
Annex 3
Annex 4

Storm Consent Application

Schedule 10
Annex 2
Annex 3
Annex 4

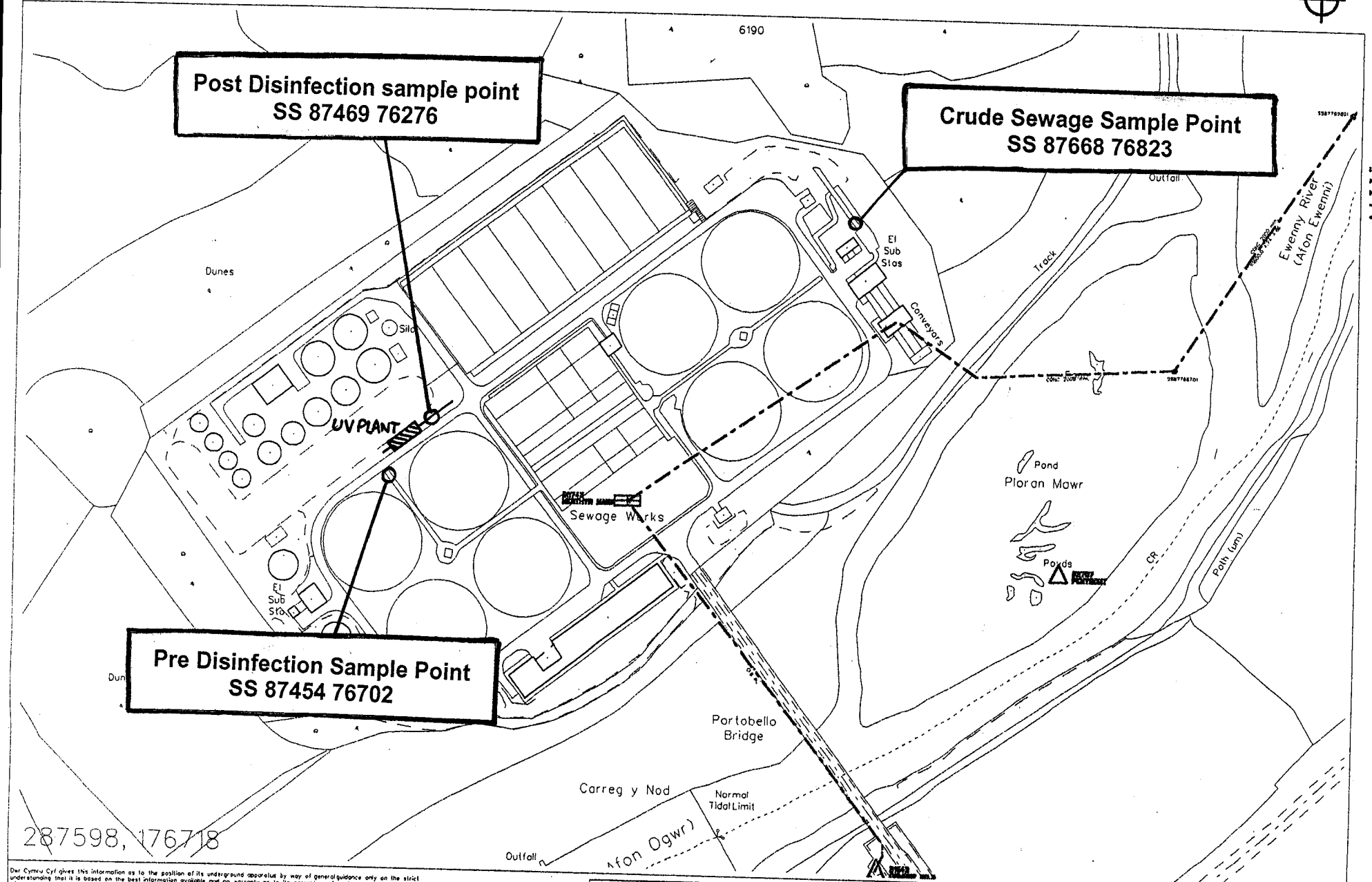
Support Documents

Works layout showing the effluent sample point and discharge point.
1256-00-1002 Rev B - Population basis for the works

Dwr Cymru
Welsh Water

Penybont Sample point information

Nov 11 2002



Dwr Cymru Cyf gives this information as to the position of its underground apparatus by way of general guidance only on the strict understanding that it is based on the best information available and no warranty as to its correctness is relied upon in the event of excavations or other works made in vicinity of the Companys apparatus and any onus of locating the apparatus before carrying out any excavations rests entirely with you. It must be understood that the furnishing of the information is entirely without prejudice to the provision of the New Roads and Street Works Act 1991 and of the Companys right to be compensated for any damage to its apparatus. Service pipes are not generally shown but their presence should be anticipated.

EXACT LOCATIONS OF ALL APPARATUS TO BE DETERMINED ON SITE.

Reproduced from the Ordnance Survey's maps with the permission of the Controller of Her Majesty's Stationery Office

Scale: 1:2500

UV DISINFECTION CHECKLIST

Site Name	PENTBONT

1.	Is the disinfection process designed specifically to reduce the numbers of viable, potentially infectious micro-organisms in the effluent ? (Environment Agency policy requirement)	YES
2.	Is secondary treatment proposed ? (Environment Agency policy requirement)	YES
3.	Is it intended to use a low pressure or a medium pressure artificial UV source ? Provide manufacturer's specification.	MEDIUM
4.	Will the lamps be cleaned automatically or manually ? Identify process.	AUTOMATIC HYDRAULIC WIPER
5.	Proposed minimum UV design dose rate. (mJoule/cm^2)	30
6.	Proposed minimum UV intensity (mWatt/cm^2)	8.617
7.	Number of UV Channels.	ONE
8.	How many lamp modules will the effluent have to pass (minimum/maximum)?	3
9.	Proposed number of lamps per module ?	304
10.	Maximum flow rate per channel	1600L/S.
11.	Reactor volume (per module)	6.52m^3 *
12.	Will disinfection be undertaken outside the bathing season ? Is this to protect uses or at discharger's discretion ?	YES ENVIRONMENTAL PROTECTION
13.	Will UV equipment failsafe (ie all duty lamps on rather than off) in the event of control system failure ?	YES
14.	Will the works have a standby generator or dual power supply to enable disinfection even in the event of power failure ?	DUAL POWER
15.	Under what circumstances can non-disinfected effluent be discharged ?	TOTAL FAILURE OF UV SYSTEM.

* SEE ATTACHED CALCULATION

16.	Will the UV transmissivity be better than 45% at all times ? If predictions or measurements available, what is minimum ?	YES
17.	Will on-line transmissivity be used for dose control ?	YES
18.	Will the flow be continuously recorded at the inlet to each disinfection channel ?	YES
19.	Will the UV intensity be measured and recorded?	YES
20.	Will dose be calculated and recorded ?	YES
21.	Will the site have telemetry to a 24hr manned site including UV information/status ?	YES
22.	Is data available from similar existing installations ?	YES
23.	Provide NGR and description of following sampling points:- Crude influent Pre-disinfection effluent Post-disinfection effluent	 SS 8668 76823 SS 87454 76702 SS 87469 76726
24.	Reduction in numbers of E.coli due to UV, used for scheme design.	
25.	Assumed reduction in numbers of E.coli due to other on-site processes	2 LOG
26.	Predicted reduction due to off-site processes (eg dilution & dispersion)	
27.	Has the agreed generic 'Operating and Maintenance Schedule' been modified for this works ? (Date of agreement)	TO BE FINALISED

Penybont - Trojan UV3000 Plus

RT = net react vol / peak flow			
Flow per channel in l/s =	1600		
Net react vol = gross R vol - qz slv vol			
Gross R vol = slv length x width of R x height of R x # banks on at peak Q			
7,078,949.45	cm^3		
Quartz Sleeve vol = 3.146 x slv dia^2 x slv length x # lamps on			
4			
549,941.91	cm^3		
Therefore, net reactor vol =	7,078,949.45	minus	549,941.91
6,529,007.54	cm^3		
RT =	4.08	seconds	
DOSE = RT x UVI =	35,163.19	$mW.s/cm^2$	

21st November 2002.

Calculations

Document Number : 1256-00-1002

Title : Penybont loading and design flow summary

Tag No.

Client : DCWW

Contract Title : Penybont

Contract Number : 1256

Rev	Date	Revision Description	Pages	Prepared	Checked	Approved
A	7th Sept 2001	For approval	3	PJW	SEJ	JMT
B	10th Feb 2002	For approval	2	PJW	SEJ	PJW

Reason for Issue

- ☐ **For Enquiry**
- ☐ **For Information**
- ☐ **For Construction**
- ☐ **For Review**
- ☑ **For Approval**

Paterson Candy Ltd.
A Black And Veatch Company
632/652 London Road,
Isleworth,
Middlesex,
TW7 4EG

Tel: 44 (0) 20-8560-5199
Fax: 44 (0) 20-8568-5479

PATERSON CANDY

This design is the property of Paterson Candy Ltd. and is not to be used, copied communicated or disclosed, in whole or in part, except in accordance with a contract, licence or agreement, in writing with Paterson Candy Ltd.

Client: DCWW - AMP 3	Subject: Penybont Loading

1. Calculation Background

The calculation works out the load onto the Penybont plant based on a population of 122239. This figure is not used to calculate the flows which are taken from the current consented flows.

2. Assumptions

Load per capita	TSS	=	0.072	kg/hd.d
	BOD	=	0.06	kg/hd.d
	NH3	=	0.008	kg/hd.d
BODs/BODt		=	0.5	
VSS/TSS		=	0.7	
bVSS/TSS		=	0.6	

3. Works population and input data for Pen Y Bont catchment

Design conditions	=	122239	pe

Loading

TSS	=	8801	kg/d
ISS	=	2640	kg/d
VSS	=	6161	kg/d
BODt	=	7334	kg/d

Calculated by:	Checked by:	Job no:	Revision B
Peter Woollard	Sharon Jones	1256-00-1002	Sheet 1 of 2

Paterson Candy ltd
632/652 London Road Isleworth, TW7 4EG.

Tel: 020 8560 5199
Fax: 020 8568 5479

BODs	=	3667	kg/d
BODp	=	3667	kg/d
NH3	=	978	kg/d

Flows

The flows used in the design are based on the consented flows for the works

DWF	=	1040	l/s
FFT	=	1600	l/s
	=	138240	m3/d
SOCa[1]	=	254879	m3/d

1. Based on DWF + 1.36 P

Discharge Consent

The discharge consent for the works is under review. Modeling of the eastuary will be used to define the summer and winter discharge consents for the works.

Paterson Candy ltd
632/652 London Road Isleworth, TW7 4EG.

Tel: 020 8560 5199
Fax: 020 8568 5479

FINAL EFFLUENT

ASIANTAETH YR AMGYLCHEDD
ENVIRONMENT AGENCY

WATER RESOURCES ACT 1991 (schedule 10)

(as amended by the Environment Act 1995)

Application for a variation to an existing consent to discharge Main Works Consent

Regional/Area Address:	*Official Use Only*
The Regional Finance Manager Environment Agency Welsh Region PO Box 425 St Mellons Business Park CARDIFF CF3 0LT	*Dist/Area Ref:* 1303 *Application No.* BB3006701 *Date Received:* 25/11/02 *Fee Received:* £688 —

Each applicant must complete the main form and may need to complete a separate annexe if appropriate. Please look through the form and read the notes carefully before you complete it. Processing of your application will be aided by full and accurate completion of all relevant sections and provisions of the necessary plans. If you have any queries regarding the form please contact the person given in the notes.

NOTE:
All information contained within this application will be made available on the public register unless there is a request to withhold any of it. Any such request should provide a full justification stating why the information needs to be withheld (see note xiii).

1 SITE ADDRESS

1.1 Address or other sufficient description of land or premises to which this application applies.

Penybont Waste Water Treatment Works
Portobello Road
Ogmore by Sea
Bridgend

Post Code: **CF32 0QP**

2 DETAILS OF DISCHARGE(S)

2.1 State the nature of the discharge(s) (see note i and ii) - tick one or more boxes as appropriate:

Sewage Effluent - volume of 5 cubic metres per day or less	
Sewage Effluent - volume greater than 5 cubic metres per day **(complete annexe 1)**	X
Sewage Effluent discharged under storm or emergency conditions **(complete annexe 2)**	
Cooling Water **(complete annexe 3)**	
Trade Effluent (*including site drainage*) **(complete annexe 3)**	X
Others (*please specify*)	

2.2 Please state the maximum quantity it is proposed to discharge in any one day **138240 m³/day**

Briefly state how this figure was calculated (see note ii).

The figure is based on the existing consent to discharge flow to full treatment of 1600 l/s.

2.3 a) Indicate proposed means of discharge - tick as appropriate and show on plan:
(for 1, 2 & 3 please state dimensions below)

1. Pipe	X	4. Borehole		7. Sub-Irrigation System	
2. Channel		5. Well		8. Combination of 6 & 7	
3. Culvert		6. Soakaway		9. Other (*please specify below*)	

b) National Grid Reference(s) of point(s) of discharge (see note iii).

S	S	8	7	8	2	5	7	6	9	5	5

(please indicate on accompanying plans)

2.4 a) The Agency will normally require adequate provision for the taking of samples of the discharge in a safe and convenient manner at any time. Please indicate the means proposed (see note iv) - tick as appropriate and show on plan:

At the outlet ☐ At a manhole or sampling chamber ☐

Other *(please specify)*

b) National Grid Reference(s) of sampling point(s) (if different from 2.3 b) above).

S	S	8	7	4	5	4	7	6	7	0	2

(please indicate on accompanying plans)

c) What flow measurement facilities will be provided (see note v)?
Please give details.

Continuos flow monitoring is provided on the works outlet

2.5 a) Type of Treatment Plant(s) to be used *(please specify make and model)* - tick as appropriate:

Septic Tank [ ] Package Sewage Treatment Works [ ] Other [X]

Fine Screening.
Primary Settlement.
Secondary treatment in an activated sludge plant.
Final settlement.
UV disinfection.

b) Will the treatment process involve the use of any chemicals (eg ferric salts, polyelectrolytes). If yes please give details. **No**

2.6 a) On what date do you anticipate the discharge will commence? **31/03/02**

b) If you require the consent for a limited time period please give dates; from: / /

to: / /

c) If the discharge is not continuous please detail the period/circumstances when it will occur.

2.7 a) Are there any existing consents for discharges from the premises (see note vi)? **Yes**
If yes, please give the reference numbers *(Any further information should be given in Section 5.3).*

BB 3006701

b) Has any person had a Prohibition Notice serviced on them in respect of this site? **No**
If yes, please give the reference number.

3 SITE DETAILS

3.1 Please give the name of the relevant Planning Authority.

Bridgend Council (Pen-y-Bont ar Ogwr)

3.2 Please give details of the premises - tick as appropriate:

1. Single Dwelling	[ ]	6. Fish Farm	[ ]
2. Multiple Dwellings	[ ]	7. Mineral Workings	[ ]
3. Industrial Premises	[ ]	8. Water Services plc STW	[X]
4. Vehicle Parking Area	[ ]	9. Water Supply	[ ]
5. Commercial Premises *(please specify)*	[ ]	10. Other *(please specify)*	[ ]

3.3 Please indicate source of the water supply - tick as appropriate:

1. Well ☐
2. Borehole ☐
3. Precipitation (eg rain or snow) ☐
4. Mains *(please state water supply company)* ☐
5. River *(please give name below)* ☐
6. Estuary *(please give name below)* ☐
7. Coastal Water *(please give name below* ☐

4 DETAILS OF RECEIVING ENVIRONMENT

4.1 Receiving Medium - tick the category(s) to which the proposed discharge(s) is(are) to be made:

1. Estuarial Water (tidal river or stream) [X]
2. River or Stream (non-tidal) ☐
3. Canal ☐
4. Lake, Lock or Pond ☐
5. Into Land ☐
6. Onto Land ☐
7. Directly into Groundwater ☐
8. Coastal Water (see note vii) ☐

State name of receiving water if known:

Ogmore River

4.2 In the case of sub-irrigation systems, soakaways or boreholes: **Not applicable**

(a) Is any part of the system within 5 metres of the boundary of the premises? Y/N

(b) Is any part of the system within 10 metres of a watercourse? Y/N

(c) Is any part of the system within 50 metres of a borehole or spring? Y/N

(d) For wells and boreholes state dimension(s) in metres. m

(e) For sub-irrigation systems, soakaway pits, wells and boreholes, state maximum depth in metres. m

(f) For boreholes, state details of lining in metres:

(i) Depth of lining m

(ii) Depth of perforated lining m

(iii) Depth of unperforated lining m

(g) A percolation test must be carried out in accordance with British Standard BS6297:1983. Have the results been provided? Y/N

4.3 Is there a foul sewer available to which the discharge(s) could be made (see note viii)? **N/A**

If yes, please give the reasons it is not practical to connect to it (eg distance, flow etc).

5 DETAILS OF APPLICANT AND OTHER INFORMATION

5.1 (See general notes and note ix)

(a) Full name and postal address of applicant. This should be the person who will become the consent holder should consent be issued.

* Dwr Cymru Cyf
* Pentwyn Road
* Nelson
* Treharris
* Mid Glamorgan
*

Post Code: CF46 6LY

Daytime Telephone Number:

Company Registration Number (if appropriate): 2366777

(b) Agent (if any) - Full name and postal address.

*
*
*
*
*
*

Post Code:

Contact Name and Daytime Telephone Number:

5.2

Please give full name and address to which bills should be sent if different to that given above:

*
*
*
*
*
*

Post Code:

Daytime Telephone Number:

5.3 Are there any other factors to be taken into account? Please continue on a separate sheet if necessary.

DECLARATION

I/We:

1. apply under the Water Resources Act 1991 (as amended by the Environment Act 1995) for consent to discharge, as described in this Application. "This Application" means this page, all the other pages of this form and any attached annexes, the attached plan(s), any other sheets attached, and any other written information supplied to support the application.

2. enclose the required application fee, payable to the Environmental Agency (see note x).

3. enclose 3 copies of the plan(s) and location maps with all relevant information clearly marked (see note xi).

4. will pay required advertising costs (see note xii).

5. confirm that I/we* will notify the Environment Agency of any changes in the information in this application which might be material to the continuation of the consent.

6. confirm that the information given in this application and any questions which the Environment Agency may have about it is/~~will* be~~ true to the best of ~~my~~/our* knowledge, information and belief and ~~am~~/are* not aware of any other facts or information which might affect the granting of a consent, or conditions which might be put on it (see note xiii).

7. confirm that I/we* will pay any annual charges due should a consent be granted YES/~~NO*~~. If no please indicate who will be completing section 5.2 above (see note xiv).

(* Delete as appropriate)

SIGNED: Lewis Keir ..... **PRINT NAME:** LEWIS KEIR .....

ON BEHALF OF: DWR CYMRU CYF ..... **DATED:** 22/11/02

CONFIDENTIALITY

I/we apply for commercial confidentiality and enclose a full written justification (see note xv).

SIGNED: ..... **DATED:** .....

PLEASE RETURN THIS FORM TO THE ADDRESS GIVEN ON THE FRONT PAGE

ASIANTAETH YR AMGYLCHEDD
ENVIRONMENT AGENCY

ANNEXE 1
SEWAGE EFFLUENT GREATER THAN 5 CUBIC METRES PER DAY

Please complete this annexe if you are proposing to discharge more than 5 cubic metres per day of sewage effluent (if the effluent is to contain a trade component Annexe 3 should also be completed).

Official Use Only
Application No.

APPLICATION FOR MAIN WORKS CONSENT

1. Site Name.

Pen y Bont STW

2. Please detail the type and number of treatment units you are proposing to use.

The main process stream comprises:
- **2 No inlet screens**
- **1 No Grit removal plant**
- **2 No primary settlement tanks**
- **4 No activated sludge basins**
- **4 No final settlement tanks**
- **1 No UV disinfection plant**

3. Volume, rates and overflow settings. (Please give volumes in cubic metres per day or litres per second as indicated below)

a) Maximum flow to full treatment. (see note ii) in main guidance notes for population equivalents). **138240 m³/d**

b) Dry weather flow of discharge(s). **89856 m³/d**

c) Average daily flow. **89856 m³/d**

d) Maximum rate of discharge(s) **1600 l/s**

4. Will there be provisions for storm/emergency discharges? **Yes**
If yes, please complete Annexe 2.

5. a) Will any self monitoring take place? **No**
If yes, please give details.

b) Will automatic sampling equipment be provided? **No**
If yes, please give details of type and location *(please indicate on plan)*.

6. a) Please state the maximum population served by the treatment works.

122239

b) Please give reasons for any variations in population, eg holiday resort, training area, seasonal industry etc, and detail the periods/times involved.

Not applicable

c) Please state type of catchment/site being served, eg residential, resort, industrial etc.

Municipal and industrial

7. Will a maintenance agreement be set up to manage the sewage works? (see note b) **No**

If yes, please give details.

8. Does the effluent contain a trade component? **Yes**

If yes, please complete appropriate section on Annexe 3 for authorised discharges of trade effluent to the sewerage system.

Notes (see also the notes attached to the main form):

a) For significant sewage treatment plants full details of the plant design, dry weather flow and Biochemical Oxygen Demand load, along with information on all discharges from the works must be included in order for the application to be processed. Flow monitoring will normally be required for such discharges and details of siting and type of flow recorders should be provided.

b) The Agency require a single body or company to be responsible for the discharge and any bills raised under the Charges for Discharges Scheme. Where multiple dwellings under different ownership are connected to the same system a management company should be set up.

ASIANTAETH YR AMGYLCHEDD
ENVIRONMENT AGENCY

ANNEXE 3
TRADE EFFLUENT DISCHARGES

Please complete this annexe if you are proposing to make a discharge trade effluent (this includes site drainage).

Official Use Only
Application No.

1. Site Name.

PENYBONT STW

2. a) Describe in full the trade effluent and the process(es) from which it arises.

SEE ATTACHED TRADE EFFLUENT DATA SHEETS

b) Please state the type and number of treatment units you are proposing to use *(if site drainage please include details of oil/petrol interception facilities).*

3. Rainfall Dependent Discharges

a) Is the volume going to be rainfall dependent? Y/N

b) If yes, please give the total area drained. m²

c) Please give details of any activities which occur in the drainage area which could contaminate surface water (see note b)

4. Rainfall Independent Discharges

a) What is the maximum rate of discharge? 204 l/s

b) What is the ~~average~~ maximum consented daily flow? 5640 m³/d

c) For discharges where the source of supply is other than mains water:

i) give the abstraction licence number

ii) give the National Grid Reference of a point where the influent can be sampled.

(please mark on the plan)

5. a) Will any self monitoring take place? Y/N
If yes, please give details

b) Will automatic sampling equipment be provided? Y/N
If yes, please give details of type, frequency and location *(please indicate on plan)*

6. a) Please state the maximum temperature in degrees Celsius of the effluent when discharged if different from ambient.

AMBIENT

b) Will the discharge be monitored for temperature? Y/N
If yes, please give details of type and location *(please indicate on plan)*

7. Has an application for Authorisation been made for a 'prescribed process' as defined in Part 1 of the Environmental Protection Act 1990? Y/N

If yes, please complete the following:

a) The application reference.

b) Contact name of case officer.

8. a) Please indicate if any of the specified substances given below or their compounds will be present in the effluent and if so at what maximum concentration (please give values in micrograms per litre - ug/l). Please see note c.

SUBSTANCE	CONCENTRATION (ug/l)			SUBSTANCE	CONCENTRATION (ug/l)		
	Max	Min	Mean		Max	Min	Mean
Iron				Lead	138		
Arsenic				Malathion			
Atrazine				Mercury			
Azinphos-ethyl				Nickel	1170		
Azinphos-methyl				PCB's			
Boron				PCSD's			
Cadmium	0·2			Parathion			
Carbon tetrachloride				Parathion-methyl			
Chloroform				Pentachlorophenol (PCP)			
Chromium	534			Perchloroethylene			
Copper	209			Permethrin			
Cyanide				pH <5.5 or >9.0			
Cyfluthrin				Phosphorus			
DDT				Polychlorinated biphenyls			
1,2 Dichloroethane				Simazine			
Dichlorovos				Sulcofuron			
Dioxins				Tetrachloroethylene			
Drins (eg Aldrin, Dieldrin)				Tributyltin compounds			
Endosulfan				Trichlorobenzene			
Fenitrothion				Trichloroethane			
Fenthion				Trichloroethylene			
Flucofuron				Trifluralin			
Hexachlorobenzene (HCB)				Triphenyltin compounds			
Hexachlorobutadiene (HCBD)				Vanadium			
Hexachlorocyclohexanes (HCH's)				Zinc	461		

b) Are there any other significant chemical components used on site which may be contained in the effluent, including biocides or additives? X/N

If yes, please give details.

ASIANTAETH YR AMGYLCHEDD
ENVIRONMENT AGENCY

ANNEXE 4
WELSH REGION SUPPLEMENTARY INFORMATION ANNEXE

Please complete this annexe for every proposed discharge.

Official Use Only
Application No.

APPLICATION FOR MAIN WORKS CONSENT

For all proposed discharges:

1. Site Name.
   Pen y Bont STW

2. Is this application being made to reinstate a lapsed Consent? **No**

   If so, please state the Number of the lapsed Consent:

   IMPORTANT: If you are in need of advice on either part of Question 2, please contact the Agency Regional Consents Section on 01222 770088.

3. If the proposed discharge is to be made down a pipe, channel or culvert (as given in Section 2.3 of the main application form), please state the diameter (including units):
   Pipe – 1675 mm

4. Please indicate the anticipated cost of the proposed scheme, including any alternatives which may have been considered:

   Four million pounds

5. Is there any trade effluent component in the proposed discharge? **Yes**

   If yes, please confirm here that you have completed and enclosed Annexe 3: *Tick* **X**

ASIANTAETH YR AMGYLCHEDD
ENVIRONMENT AGENCY

ANNEXE 4
WELSH REGION SUPPLEMENTARY INFORMATION ANNEXE

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Official Use Only
Application No.

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IMPORTANT: If you are in need of advice on either part of Question 2, please contact the Agency Regional Consents Section on 01222 770088.

3. If the proposed discharge is to be made down a pipe, channel or culvert (as given in Section 2.3 of the main application form), please state the diameter (including units):

Pipe – 1675 mm

4. Please indicate the anticipated cost of the proposed scheme, including any alternatives which may have been considered:

Four million pounds

5. Is there any trade effluent component in the proposed discharge? **Yes**

If yes, please confirm here that you have completed and enclosed Annexe 3: *Tick* **X**

6. Will the proposed discharge be pumped or made under gravity? (please circle) **Gravity**

If pumped, please state the maximum pump rate in l/sec: l/s

For proposed discharges of sewage in storm or emergency conditions:

7. Please confirm here that you have completed and enclosed both Annexes 1 and 2: *Tick* ☐

8. Please state:

Population served (head)	
Consumption (l/head/day) default = 180	
Infiltration (m^3/day)	
Industrial effluent flow (m^3/day)	
Dry Weather Flow (m^3/day)	
Soc A (l/sec)	
Predicted spill frequency (per annum)	

IMPORTANT NOTES FOR ALL CONSENT APPLICATIONS:

1. **Whoever signs the declaration on the main application form takes responsibility for the discharge, and will become the registered consent holder, if consent is given. In the case of a 'body corporate' (eg a public limited company ('plc'), limited, company, local authority), the 'body corporate' will be the registered consent holder, and the person with the delegated authority to sign on behalf of the 'body corporate' should give their job title.**

2. **Agents making an application on behalf of a client, must attach their clients written authority.**

3. **If the name and/or address of the applicant changes after submission of this application to the Environment Agency, the applicant must inform the Agency in writing.**

Pen y Bont Consent Application

Background

Penybont it a year three output for the AMP 3 program. The existing consent is to be reviewed to include UV disinfection and an ammonia consent. In order to meet these new requirements the works is to undergo refurbishment and extension to enable to biological process to achieve the required standard. This will include replacement of the surface aerators with a fine bubble aeration system and adding a new final settlement tank. UV disinfection plant will also be added.

The cost of the scheme to meet the new consent will be approximately 4 million pounds.

Enclosed

Main Application

Schedule 10
Annex 1
Annex 3
Annex 4

Storm Consent Application

Schedule 10
Annex 2
Annex 3
Annex 4

Support Documents

Works layout showing the effluent sample point and discharge point.
1256-00-1002 Rev B - Population basis for the works

Penybont WWTW
Metals Removal

Consent Owner	Licence No	Flow	Cadmium		Chromium		Copper		Lead		Nickel		Zinc	
		m3/d	mg/l	kg/d	mg/l	kg/d	mg/l	kg/d	mg/l	kg/d	mg/l	kg/d	mg/l	kg/d
Truplate	SW451	8	0.10	0.00	20	0.2	20	0.2	20	0.2	20	0.2	20	0.2
Sony	SW203	2265		0.0	15	34.0	15	34.0	15	34.0	15	34.0	15	34.0
SAS international	SW438	9	0.10	0.00	10	0.1		0.0	2	0.0	2	0.0	5	0.0
Powersport	SW445	6.5		0.0	20	0.1	20	0.1	20	0.1	20	0.1	20	0.1
Hyder Industrial	SW502	700		0.0	2	1.4	2	1.4	2	1.4	2	1.4	2	1.4
J A Carters	SW437	273	0.10	0.03	20	5.5	20	5.5	20	5.5	20	5.5	20	5.5
Ford	SW439	1200		0.0		0.0	2	2.4		0.0	2	2.4	2	2.4
Davies Bros	SW504	70		0.0		0.0		0.0		0.0		0.0	2	0.1
Biomet	SW21	14.6		0.0	2	0.0	2	0.0	2	0.0	2	0.0	2	0.0
Alignite	SW311	30		0.0	2	0.1	2	0.1	2	0.1	2	0.1	2	0.1
Align rite	SW52	70		0.0	2	0.1	2	0.1	2	0.1	2	0.1	2	0.1
Actionsmart	SW219	182		0.0	2	0.4	2	0.4	2	0.4	2	0.4	2	0.4
Harman Becker	SW383	20		0.0		0.0		0.0		0.0	2	0.0		0.0
				0.0		0.0		0.0		0.0		0.0		0.0
				0.0		0.0		0.0		0.0		0.0		0.0
Penybont DWF m3/d	21140	Total		0.03		41.8		44.1		41.7		44.2		44.3
mg/l in works crude			0.0014		1.98		2.09		1.97		2.09		2.1	
Percentage removed*			88		73		90		93		44		78	
mg/l in works effluent			0.0002		0.53		0.21		0.14		1.17		0.46	
ug/l in works effluent			0.2		534		209		138		1170		461	

* From application of toxicology to industrial effluent control, R G Davies and T F Zabel, Eighth European sewage and refuse symposium, Munich, 22-23 May 1990, European Water Pollution Control Association.

Trade Effluent Licence: SW270

DŴR CYMRU
WELSH WATER

Owner's Name:	Bridgend CBC	**Trader's Name:**	Ynysawdre Swimming Pool
Owner's Address:	PO BOX 4 Civic Offices, Angel Street Bridgend Mid Glamorgan CF31 1LX	**Trader's Address:**	Heol Adare Ynysandre Bridgend Mid Glamorgan
		Contact Name:	
SPT:	74795	**Grid Reference:**	
Responsible Officer:		**Consent Granted:**	20 May 1997
SIC Name:	SWIMMING POOL	**Current Var/Dir:**	
Name of Division:	South West	**Consent Closed:**	
Name of STW:	PENYBONT	**Consent Revoked:**	
Hydro. Ref. Point:	0	**Hydro. Distance:**	0
Discharge Description:			
Consent Comments:			

Chemical:	Amount:	Units:
Sulphide - Total (Det Code 167)	1000	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Free Chlorine (Det Code)	0.1	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
21	m3/Day	19	Litre/sec				

Trade Effluent Licence: SW451

DŴR CYMRU
WELSH WATER

Owner's Name:	Truplate	**Trader's Name:**	Truplate
Owner's Address:	25 Ogmore Crescent Bridgend IE Bridgend Mid Glamorgan	**Trader's Address:**	25 Ogmore Crescent Bridgend IE Bridgend Mid Glamorgan
SPT:	74701	**Contact Name:**	
Responsible Officer:		**Grid Reference:**	
SIC Name:	ELECTROPLATING	**Consent Granted:**	01 June 1978
Name of Division:	South West	**Current Var/Dir:**	01 June 1981
Name of STW:	PENYBONT	**Consent Closed:**	
Hydro. Ref. Point:	0	**Consent Revoked:**	
Discharge Description:		**Hydro. Distance:**	0
Consent Comments:			

Chemical:	Amount:	Units:
Anionic Detergent (Det Code 461)	30	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Oil and Grease (Det Code 666)	100	mg/Litre
Sulphide - Total (Det Code 167)	1	mg/Litre
Cyanide - Total (Det Code 175)	10	mg/Litre
Cadmium (Det Code 253)	0.1	mg/Litre
Tot Sol-Cr-Cu-Pb-Ni-Zn	10	mg/Litre
Tot Cr-Cu-Pb-Ni-Zn	20	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
8	m3/Day	1	m3/Hr	08:00:00	21:00:00	6	10

Trade Effluent Licence: SW283

DŴR CYMRU
WELSH WATER

Owner's Name:	Powelll Garages Ltd	**Trader's Name:**	Texaco
Owner's Address:	Wychtree Service Stn Neath Road Moriston, Swansea West Glamorgan	**Trader's Address:**	Bridgend Service Stn Tremains Road Bridgend Mid Glamorgan
		Contact Name:	
SPT:	999001	**Grid Reference:**	
Responsible Officer:		**Consent Granted:**	10 February 1997
SIC Name:	VEHICLE WASH	**Current Var/Dir:**	
Name of Division:	South West	**Consent Closed:**	
Name of STW:	PENYBONT	**Consent Revoked:**	
Hydro. Ref. Point:	0	**Hydro. Distance:**	0
Discharge Description:			
Consent Comments:			

Chemical:	Amount:	Units:
Anionic Detergent (Det Code 461)	30	mg/Litre
Sulphide - Total (Det Code 167)	1000	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
10	m3/Day	1	Litre/sec			6	10

Trade Effluent Licence: SW203

DŴR CYMRU
WELSH WATER

Owner's Name:	Sony Manufacturing Co UK	**Trader's Name:**	Sony Manufacturing Co UK
Owner's Address:	Bridgend Plant Bridgend Industrial Estate Bridgend Mid Glamorgan CF31 3YH	**Trader's Address:**	Bridgend Plant Bridgend Industrial Estate Bridgend Mid Glamorgan CF31 3YH
SPT:	74561	**Contact Name:**	
Responsible Officer:		**Grid Reference:**	
SIC Name:	MANUFACTURING	**Consent Granted:**	04 December 1989
Name of Division:	South West	**Current Var/Dir:**	
Name of STW:	PENYBONT	**Consent Closed:**	
Hydro. Ref. Point:	0	**Consent Revoked:**	
Discharge Description:		**Hydro. Distance:**	0
Consent Comments:			

Chemical:	Amount:	Units:
Total Fluoride (Det Code)	50	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Sulphide - Total (Det Code 167)	1	mg/Litre
Total Metals Cu+Zn+Pb+Cr+Ni (Det Code 986	15	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
2265	m3/Day	94.4	m3/Hr			6	10

Trade Effluent Licence: SW438

DŴR CYMRU
WELSH WATER

Owner's Name:	SAS International Ltd	**Trader's Name:**	SAS International Ltd
Owner's Address:	Parc Crescent Waterton Industrial Estate Bridgend Mid Glamorgan CF31 3XU	**Trader's Address:**	Parc Crescent Waterton Industrial Estate Bridgend Mid Glamorgan CF31 3XU
SPT:	74721	**Contact Name:**	
Responsible Officer:		**Grid Reference:**	
SIC Name:	Metal treatment	**Consent Granted:**	27 June 1986
Name of Division:	South West	**Current Var/Dir:**	
Name of STW:	PENYBONT	**Consent Closed:**	
Hydro. Ref. Point:	0	**Consent Revoked:**	
Discharge Description:		**Hydro. Distance:**	0
Consent Comments:			

Chemical:	Amount:	Units:
Oil and Grease (Det Code 666)	50	mg/Litre
Total Fluoride (Det Code)	10	mg/Litre
Anionic Detergent (Det Code 461)	65	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Sulphide - Total (Det Code 167)	1	mg/Litre
Zinc (Det Code 245)	5	mg/Litre
Nickel (Det Code 429)	2	mg/Litre
Molybdenum (Det Code 383)	15	mg/Litre
Lead (Det Code 328)	2	mg/Litre
Chromium (Det Code 375)	10	mg/Litre
Cadmium (Det Code 253)	0.1	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
9	m3/Day	1	m3/Hr			6	10

Trade Effluent Licence: SW490

DŴR CYMRU
WELSH WATER

Owner's Name:	Punch Precision Ltd	**Trader's Name:**	Punch Precision Ltd
Owner's Address:	C8 North Road Bridgend Industrial Estate Bridgend Mid Glamorgan	**Trader's Address:**	C8 North Road Bridgend Industrial Estate Bridgend Mid Glamorgan
		Contact Name:	
SPT:	74758	**Grid Reference:**	
Responsible Officer:		**Consent Granted:**	26 April 1994
SIC Name:	Metal degreasing and phosphating	**Current Var/Dir:**	
Name of Division:	South West	**Consent Closed:**	
Name of STW:	PENYBONT	**Consent Revoked:**	
Hydro. Ref. Point:	0	**Hydro. Distance:**	0
Discharge Description:			
Consent Comments:			

Chemical:	Amount:	Units:
Anionic Detergent (Det Code 461)	400	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Total Suspended Solids (Det Code 135)	500	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
2	m3/Day	0.2	m3/Hr			6	10

Trade Effluent Licence: SW445

DŴR CYMRU
WELSH WATER

Owner's Name:	Powersport International Ltd	**Trader's Name:**	Powersport International Ltd
Owner's Address:	Ocean Buildings Bute Crescent Cardiff South Glamorgan	**Trader's Address:**	Queens Road Bridgend Industrial Estate Bridgend Mid Glamorgan CF31 3UT
		Contact Name:	
SPT:	74720	**Grid Reference:**	
Responsible Officer:		**Consent Granted:**	27 February 1986
SIC Name:	Electroplating and component cleaning	**Current Var/Dir:**	
Name of Division:	South West	**Consent Closed:**	
Name of STW:	PENYBONT	**Consent Revoked:**	
Hydro. Ref. Point:	0	**Hydro. Distance:**	0
Discharge Description:			
Consent Comments:			

Chemical:	Amount:	Units:
Sulphide - Total (Det Code 167)	1	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Anionic Detergent (Det Code 461)	30	mg/Litre
Tot Cr-Cu-Pb-Ni-Ag-Zn	20	mg/Litre
Tot Sol-Cr-Cu-Pb-Ni-Ag-Zn	10	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
6.5	m3/Day	1	m3/Hr			6	10

Trade Effluent Licence: SW256

DŴR CYMRU
WELSH WATER

Owner's Name:	Pin-it Pastry	**Trader's Name:**	Pin-it Pastry
Owner's Address:	Abergarw Industrial Estate Brynmelyn Bridgend Mid Glamorgan	**Trader's Address:**	Abergarw Industrial Estate Brynmelyn Bridgend Mid Glamorgan
		Contact Name:	
SPT:	74776	**Grid Reference:**	
Responsible Officer:		**Consent Granted:**	15 January 1996
SIC Name:	FOOD INDUSTRY	**Current Var/Dir:**	
Name of Division:	South West	**Consent Closed:**	
Name of STW:	PENYBONT	**Consent Revoked:**	
Hydro. Ref. Point:	0	**Hydro. Distance:**	0
Discharge Description:			
Consent Comments:			

Chemical:	Amount:	Units:
Anionic Detergent (Det Code 461)	100	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
COD Total (Det Code 92)	2000	mg/Litre
Total Suspended Solids (Det Code 135)	500	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
9	m3/Day	0.9	m3/Hr			6	10

Trade Effluent Licence: SW502

DŴR CYMRU
WELSH WATER

Owner's Name:	Hyder Industrial Ltd.	**Trader's Name:**	Pencoed Waste Management Centre
Owner's Address:	PO Box 295 Alexander Gate, Rover Way Cardiff South Glamorgan	**Trader's Address:**	Factory Lane Pencoed Bridgend Mid Glamorgan
		Contact Name:	
SPT:	78248	**Grid Reference:**	
Responsible Officer:		**Consent Granted:**	05 March 2001
SIC Name:	Waste Recycling	**Current Var/Dir:**	
Name of Division:	South West	**Consent Closed:**	
Name of STW:	PENYBONT	**Consent Revoked:**	
Hydro. Ref. Point:	0	**Hydro. Distance:**	0
Discharge Description:			
Consent Comments:			

Chemical:	Amount:	Units:
Anionic Surfactants	30	mg/Litre
Phenols Total (Det Code)	100	mg/Litre
Sulphide - Total (Det Code 167)	3	mg/Litre
Cyanide - Total (Det Code 175)	2	mg/Litre
Zinc (Det Code 245)	2	mg/Litre
Nickel (Det Code 429)	2	mg/Litre
Lead (Det Code 328)	2	mg/Litre
Copper (Det Code 215)	2	mg/Litre
Chromium (Det Code 375)	2	mg/Litre
Ammonia (Det Code 111)	500	mg/Litre
COD - Load	5000	Kg/Day
Sulphate (Det Code 183)	1000	mg/Litre
Oil and Grease (Det Code 666)	100	mg/Litre
Total Suspended Solids (Det Code 135)	1700	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
700	m3/Day	10	Litre/sec			6	10

Trade Effluent Licence: sw271

DŴR CYMRU
WELSH WATER

Owner's Name:	Bridgend CBC	**Trader's Name:**	Pencoed Swimming Pool
Owner's Address:	PO Box 4 Civic Offices Angel Street, Bridgend Mid Glamorgan	**Trader's Address:**	Felindre Road Pencoed Bridgend Mid Glamorgan
SPT:	74790	**Contact Name:**	
Responsible Officer:		**Grid Reference:**	
SIC Name:	SWIMMING POOL	**Consent Granted:**	05 December 1996
Name of Division:	South West	**Current Var/Dir:**	
Name of STW:	PENYBONT	**Consent Closed:**	
Hydro. Ref. Point:	0	**Consent Revoked:**	
Discharge Description:		**Hydro. Distance:**	0
Consent Comments:			

Chemical:	Amount:	Units:
Sulphate (Det Code 183)	1000	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Free Chlorine (Det Code)	0.1	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
7.4	m3/Day	12.3	Litre/sec			6	10

Trade Effluent Licence: sw444

DŴR CYMRU
WELSH WATER

Owner's Name: Ogmore Vale Bakery

Owner's Address: Abergarw IE
Brynmelyn
Bridgend
Mid Glamorgan

Trader's Name: Ogmore Vale Bakery

Trader's Address: Abergarw IE
Brynmelyn
Bridgend
Mid Glamorgan

SPT: 74517

Responsible Officer:

SIC Name: FOOD INDUSTRY

Name of Division: South West

Name of STW: PENYBONT

Hydro. Ref. Point: 0

Discharge Description:

Consent Comments:

Contact Name:

Grid Reference:

Consent Granted: 25 July 1977

Current Var/Dir: 01 April 1987

Consent Closed:

Consent Revoked:

Hydro. Distance: 0

Chemical:	Amount:	Units:
Anionic Detergent (Det Code 461)	30	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Sulphide - Total (Det Code 167)	1	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
1	m3/Day	0.2	m3/Hr			6	10

Trade Effluent Licence: sw443

DŴR CYMRU
WELSH WATER

Owner's Name:	Natural Beauty Products Ltd	**Trader's Name:**	Natural Beauty Products Ltd
Owner's Address:	Western Avenue Bridgend IE Bridgend Mid Glamorgan CF31 3RT	**Trader's Address:**	Western Avenue Bridgend IE Bridgend Mid Glamorgan CF31 3RT
		Contact Name:	
SPT:	74724	**Grid Reference:**	
Responsible Officer:		**Consent Granted:**	04 February 1988
SIC Name:	Health Care	**Current Var/Dir:**	
Name of Division:	South West	**Consent Closed:**	
Name of STW:	PENYBONT	**Consent Revoked:**	
Hydro. Ref. Point:	0	**Hydro. Distance:**	0
Discharge Description:			
Consent Comments:			

Chemical:	Amount:	Units:
Anionic Detergent (Det Code 461)	100	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Oil and Grease (Det Code 666)	100	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
2.5	m3/Day	0.25	m3/Hr			6	10

Trade Effluent Licence: SW501

DŴR CYMRU
WELSH WATER

Owner's Name:	Miles Laboratories Ltd	**Trader's Name:**	Miles Laboratories Ltd
Owner's Address:	Western Avenue Industrial Estate Bridgend Mid Glamorgan	**Trader's Address:**	Western Avenue Industrial Estate Bridgend Mid Glamorgan
SPT:	74505	**Contact Name:**	
Responsible Officer:		**Grid Reference:**	
SIC Name:	MANUFACTURING	**Consent Granted:**	01 July 1972
Name of Division:	South West	**Current Var/Dir:**	26 March 1981
Name of STW:	PENYBONT	**Consent Closed:**	
Hydro. Ref. Point:	0	**Consent Revoked:**	
Discharge Description:		**Hydro. Distance:**	0
Consent Comments:			

Chemical:	Amount:	Units:
Anionic Detergent (Det Code 461)	30	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Sulphide - Total (Det Code 167)	1	mg/Litre
Cyanide - Total (Det Code 175)	1	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
80	m3/Day	3	m3/Hr			6	10

Trade Effluent Licence: SW273

DŴR CYMRU
WELSH WATER

Owner's Name:	Bridgend CBC	**Trader's Name:**	Llangeinor Swimming Pool
Owner's Address:	PO BOX 4 Civic Offices, Angel Street Bridgend Mid Glamorgan	**Trader's Address:**	Llaneinor Bridgend Mid Glamorgan
		Contact Name:	
SPT:	74788	**Grid Reference:**	
Responsible Officer:		**Consent Granted:**	05 December 1996
SIC Name:	SWIMMING POOL	**Current Var/Dir:**	
Name of Division:	South West	**Consent Closed:**	
Name of STW:	PENYBONT	**Consent Revoked:**	
Hydro. Ref. Point:	0	**Hydro. Distance:**	0
Discharge Description:			
Consent Comments:			

Chemical:	Amount:	Units:
Sulphate (Det Code 183)	1000	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Free Chlorine (Det Code)	0.1	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
18	m3/Day	30	Litre/sec			6	10

Trade Effluent Licence: sw500

DŴR CYMRU
WELSH WATER

Owner's Name:	Ogwr Borough Council	**Trader's Name:**	Lido Swimming Baths
Owner's Address:	Municipal Buildings Queen Street Bridgend Mid Glamorgan	**Trader's Address:**	Temple Street Maesteg Mid Glamorgan
		Contact Name:	
SPT:	74797	**Grid Reference:**	
Responsible Officer:		**Consent Granted:**	27 January 1983
SIC Name:	SWIMMING POOL	**Current Var/Dir:**	
Name of Division:	South West	**Consent Closed:**	
Name of STW:	PENYBONT	**Consent Revoked:**	
Hydro. Ref. Point:	0	**Hydro. Distance:**	0
Discharge Description:			
Consent Comments:			

Chemical:	Amount:	Units:
Free Chlorine (Det Code)	1	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
66	m3/Day	20	m3/Hr			6	10

Trade Effluent Licence: SW489

DŴR CYMRU
WELSH WATER

Owner's Name:	Kraft Foods International	**Trader's Name:**	Kraft Foods International
Owner's Address:	Waterton Industrial Estate Bridgend Mid Glamorgan CF31 2PJ	**Trader's Address:**	Waterton Industrial Estate Bridgend Mid Glamorgan CF31 2PJ
SPT:	74525	**Contact Name:**	
Responsible Officer:		**Grid Reference:**	
SIC Name:	FOOD INDUSTRY	**Consent Granted:**	26 April 1984
Name of Division:	South West	**Current Var/Dir:**	
Name of STW:	PENYBONT	**Consent Closed:**	
Hydro. Ref. Point:	0	**Consent Revoked:**	
Discharge Description:		**Hydro. Distance:**	0
Consent Comments:			

Chemical:	Amount:	Units:
Anionic Detergent (Det Code 461)	30	mg/Litre
COD Total (Det Code 92)	7000	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Sulphate (Det Code 183)	100	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
400	m3/Day	160	m3/Hr			6	10

Trade Effluent Licence: SW437

DŴR CYMRU
WELSH WATER

Owner's Name:	J A Carters Ltd	**Trader's Name:**	J A Carters Ltd
Owner's Address:	Queens Road Bridgend Industrial Estate Bridgend Mid Glamorgan	**Trader's Address:**	Queens Road Bridgend I.E. Bridgend Mid Glamorgan
		Contact Name:	
SPT:	74500	**Grid Reference:**	
Responsible Officer:		**Consent Granted:**	01 November 1969
SIC Name:	ELECTROPLATING	**Current Var/Dir:**	01 May 1981
Name of Division:	South West	**Consent Closed:**	
Name of STW:	PENYBONT	**Consent Revoked:**	
Hydro. Ref. Point:	0	**Hydro. Distance:**	0
Discharge Description:			
Consent Comments:			

Chemical:	Amount:	Units:
Anionic Detergent (Det Code 461)	30	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Sulphide - Total (Det Code 167)	1	mg/Litre
Cyanide - Total (Det Code 175)	1	mg/Litre
Cadmium (Det Code 253)	0.1	mg/Litre
Tot Cr-Cu-Pb-Ni-Zn	20	mg/Litre
Tot Sol-Cr-Cu-Pb-Ni-Zn	10	mg/Litre
Cadmium Sol	0.1	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
273	m3/Day	19.3	m3/Hr			6	10

Trade Effluent Licence: SW297

DŴR CYMRU
WELSH WATER

Owner's Name:	Intersolar Group Ltd	**Trader's Name:**	Intersolar Group Ltd
Owner's Address:	Unit 1, Horsefair Road Waterton Industrial Estate Bridgend Mid Glamorgan CF31 7YN	**Trader's Address:**	Horse Fair Road Waterton Industrial Estate Bridgend Mid Glamorgan CF31 7YN
		Contact Name:	
SPT:	74796	**Grid Reference:**	
Responsible Officer:		**Consent Granted:**	30 May 1997
SIC Name:	MANUFACTURING	**Current Var/Dir:**	
Name of Division:	South West	**Consent Closed:**	
Name of STW:	PENYBONT	**Consent Revoked:**	
Hydro. Ref. Point:	0	**Hydro. Distance:**	0
Discharge Description:			
Consent Comments:			

Chemical:	Amount:	Units:
Sulphate (Det Code 183)	1000	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
1	m3/Day	0.5	m3/Hr			6	10

Trade Effluent Licence: SW317

DŴR CYMRU
WELSH WATER

Owner's Name:	IMO Car Wash	**Trader's Name:**	IMO Car Wash
Owner's Address:	Waterton Cross Bridgend Mid Glamorgan	**Trader's Address:**	Waterton Cross Bridgend Mid Glamorgan
SPT:	74812	**Contact Name:**	
Responsible Officer:		**Grid Reference:**	
SIC Name:	VEHICLE WASH	**Consent Granted:**	05 October 1998
Name of Division:	South West	**Current Var/Dir:**	
Name of STW:	PENYBONT	**Consent Closed:**	
Hydro. Ref. Point:	0	**Consent Revoked:**	
Discharge Description:		**Hydro. Distance:**	0
Consent Comments:			

Chemical:	Amount:	Units:
Anionic Detergent (Det Code 461)	30	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
17	m3/Day	3.5	m3/Hr				

Trade Effluent Licence: sw436

DŴR CYMRU
WELSH WATER

Owner's Name:	Golden Vale Daries Ltd	**Trader's Name:**	Golden Vale Daries Ltd
Owner's Address:	Bridgend Creamery Bridgend I.E. Bridgend Mid Glamorgan CF31 3RL	**Trader's Address:**	Bridgend Creamery Bridgend I.E. Bridgend Mid Glamorgan CF31 3RL
SPT:	74501	**Contact Name:**	
Responsible Officer:		**Grid Reference:**	
SIC Name:	FOOD INDUSTRY	**Consent Granted:**	17 July 1970
Name of Division:	South West	**Current Var/Dir:**	01 April 1987
Name of STW:	PENYBONT	**Consent Closed:**	
Hydro. Ref. Point:	0	**Consent Revoked:**	
Discharge Description:		**Hydro. Distance:**	0
Consent Comments:			

Chemical:	Amount:	Units:
Anionic Detergent (Det Code 461)	30	mg/Litre
BOD ATU (Det Code 85)	1000	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
136	m3/Day	18	m3/Hr			6	10

Trade Effluent Licence: sw439

DŴR CYMRU
WELSH WATER

Owner's Name:	Ford Motor Co Ltd	**Trader's Name:**	Ford Motor Co Ltd
Owner's Address:	Waterton Industrial Estate Bridgend Mid Glamorgan CF31 3PJ	**Trader's Address:**	Waterton Industrial Estate Bridgend Mid Glamorgan CF31 3PJ
SPT:	74546	**Contact Name:**	
Responsible Officer:		**Grid Reference:**	
SIC Name:	Motor Industry	**Consent Granted:**	24 September 1979
Name of Division:	South West	**Current Var/Dir:**	01 February 1995
Name of STW:	PENYBONT	**Consent Closed:**	
Hydro. Ref. Point:	0	**Consent Revoked:**	
Discharge Description:		**Hydro. Distance:**	0
Consent Comments:			

Chemical:	Amount:	Units:
Phenol Monohydric (Det Code 749)	2	mg/Litre
Anionic Detergent (Det Code 461)	30	mg/Litre
Total Fluoride (Det Code)	30	mg/Litre
Sulphide - Total (Det Code 167)	0	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Cyanide - Total (Det Code 175)	1	mg/Litre
Nickel (Det Code 429)	2	mg/Litre
Copper (Det Code 215)	2	mg/Litre
Zinc (Det Code 245)	2	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
1200	m3/Day	50	m3/Hr			6	10

Trade Effluent Licence: SW504

DŴR CYMRU
WELSH WATER

Owner's Name:	Davies Bros. (Waste) Ltd.	**Trader's Name:**	Davies Bros. (Waste) Ltd.
Owner's Address:	Tythegston Landfill Site Tythegston Bridgend Mid Glamorgan CF32 0NE	**Trader's Address:**	Tythegston Landfill Site Tythegston Bridgend Mid Glamorgan CF32 0NE
		Contact Name:	
SPT:	74837	**Grid Reference:**	SS 851 791
Responsible Officer:		**Consent Granted:**	26 November 2001
SIC Name:	Incinerator	**Current Var/Dir:**	
Name of Division:	South Central	**Consent Closed:**	
Name of STW:	PENYBONT	**Consent Revoked:**	
Hydro. Ref. Point:	0	**Hydro. Distance:**	0
Discharge Description:			
Consent Comments:			

Chemical:	Amount:	Units:
Sulphate (Det Code 183)	1000	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Total Suspended Solids (Det Code 135)	500	mg/Litre
Zinc (Det Code 245)	2	mg/Litre
Ammonia (Det Code 111)	150	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
70	m3/Day	3	Litre/sec			6	10

Trade Effluent Licence: SW269

DŴR CYMRU
WELSH WATER

Owner's Name:	Bridgend CBC	**Trader's Name:**	Bridgend Leisure Pool
Owner's Address:	PO Box 4 Civic Offices, Angel Street Bridgend Mid Glamorgan	**Trader's Address:**	Angel Street Bridgend Mid Glamorgan
		Contact Name:	
SPT:	74789	**Grid Reference:**	
Responsible Officer:		**Consent Granted:**	05 December 1996
SIC Name:	SWIMMING POOL	**Current Var/Dir:**	
Name of Division:	South West	**Consent Closed:**	
Name of STW:	PENYBONT	**Consent Revoked:**	
Hydro. Ref. Point:	0	**Hydro. Distance:**	0
Discharge Description:			
Consent Comments:			

Chemical:	Amount:	Units:
Sulphate (Det Code 183)	1000	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Free Chlorine (Det Code)	0.1	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
7.4	m3/Day	12.3	Litre/sec			6	10

Trade Effluent Licence: SW21

DŴR CYMRU
WELSH WATER

Owner's Name:	Biomet	**Trader's Name:**	Biomet
Owner's Address:	Waterton IE Bridgend Mid Glamorgan	**Trader's Address:**	Waterton IE Bridgend Mid Glamorgan
SPT:	74526	**Contact Name:**	
Responsible Officer:		**Grid Reference:**	
SIC Name:	Electroplating and component cleaning	**Consent Granted:**	07 December 1976
Name of Division:	South West	**Current Var/Dir:**	01 May 1998
Name of STW:	PENYBONT	**Consent Closed:**	
Hydro. Ref. Point:	0	**Consent Revoked:**	
Discharge Description:		**Hydro. Distance:**	0
Consent Comments:			

Chemical:	Amount:	Units:
Tin (Det Code 324)	2	mg/Litre
Anionic Detergent (Det Code 461)	30	mg/Litre
Sulphide - Total (Det Code 167)	1	mg/Litre
Zinc (Det Code 245)	2	mg/Litre
Silver (Det Code 219)	2	mg/Litre
Nickel (Det Code 429)	2	mg/Litre
Lead (Det Code 328)	2	mg/Litre
Copper (Det Code 215)	2	mg/Litre
Chromium (Det Code 375)	2	mg/Litre
Sulphide - Total (Det Code 167)	1000	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
14.6	m3/Day	1	m3/Hr			6	10

Trade Effluent Licence: sw311

DŴR CYMRU
WELSH WATER

Owner's Name:	Alignite Ltd	**Trader's Name:**	Alignite Ltd
Owner's Address:	1 Technology Drive Bridgend Mid Glamorgan CF31 3LU	**Trader's Address:**	1 Technology Drive Bridgend Mid Glamorgan CF31 3LU
SPT:	74819	**Contact Name:**	
Responsible Officer:		**Grid Reference:**	
SIC Name:	MANUFACTURING	**Consent Granted:**	30 January 1998
Name of Division:	South West	**Current Var/Dir:**	
Name of STW:	PENYBONT	**Consent Closed:**	
Hydro. Ref. Point:	0	**Consent Revoked:**	
Discharge Description:		**Hydro. Distance:**	0
Consent Comments:			

Chemical:	Amount:	Units:
Zinc (Det Code 245)	2	mg/Litre
Silver (Det Code 219)	2	mg/Litre
Nickel (Det Code 429)	2	mg/Litre
Lead (Det Code 328)	2	mg/Litre
Copper (Det Code 215)	2	mg/Litre
Chromium (Det Code 375)	2	mg/Litre
Ammonia (Det Code 111)	50	mg/Litre
Anionic Detergent (Det Code 461)	30	mg/Litre
COD Total (Det Code 92)	2000	mg/Litre
Sulphide - Total (Det Code 167)	1000	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Tot Perchloric Acid	10	mg/Litre
Tot Tetra Methyl Ammonium Hydroxide	10	mg/Litre
Cerium	10	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
30	m3/Day	5	m3/Hr			6	10

Trade Effluent Licence: SW219

DŴR CYMRU
WELSH WATER

Owner's Name:	Actionsmart Ltd	**Trader's Name:**	Actionsmart Ltd
Owner's Address:	East Road Bridgend Industrial Estate Bridgend Mid Glamorgan CF31 3SD	**Trader's Address:**	East Road Bridgend Industrial Estate Bridgend Mid Glamorgan CF31 3SD
		Contact Name:	
SPT:	74747	**Grid Reference:**	
Responsible Officer:		**Consent Granted:**	21 October 1991
SIC Name:	CHEMICAL PROCESSING PLANT	**Current Var/Dir:**	
Name of Division:	South West	**Consent Closed:**	
Name of STW:	PENYBONT	**Consent Revoked:**	
Hydro. Ref. Point:	0	**Hydro. Distance:**	0
Discharge Description:			
Consent Comments:			

Chemical:	Amount:	Units:
Nickel (Det Code 429)	2	mg/Litre
Chromium (Det Code 375)	2	mg/Litre
Lead (Det Code 328)	2	mg/Litre
Zinc (Det Code 245)	2	mg/Litre
Copper (Det Code 215)	2	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Total Suspended Solids (Det Code 135)	600	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
182	m3/Day	23	m3/Hr			6	10

Trade Effluent Licence: sw52

DŴR CYMRU
WELSH WATER

Owner's Name:	Align-Rite Ltd	**Trader's Name:**	Align-Rite Ltd
Owner's Address:	1 Technology Drive Bridgend Mid Glamorgan CF31 3LU	**Trader's Address:**	1 Technology Drive Bridgend Mid Glamorgan CF31 3LU
SPT:	74717	**Contact Name:**	
Responsible Officer:		**Grid Reference:**	
SIC Name:	MANUFACTURING	**Consent Granted:**	28 March 1985
Name of Division:	South West	**Current Var/Dir:**	15 October 1999
Name of STW:	PENYBONT	**Consent Closed:**	
Hydro. Ref. Point:	0	**Consent Revoked:**	
Discharge Description:		**Hydro. Distance:**	0
Consent Comments:			

Chemical:	Amount:	Units:
Nickel (Det Code 429)	2	mg/Litre
Zinc (Det Code 245)	2	mg/Litre
Silver (Det Code 219)	2	mg/Litre
Lead (Det Code 328)	2	mg/Litre
Copper (Det Code 215)	2	mg/Litre
Chromium (Det Code 375)	2	mg/Litre
Ammonia (Det Code 111)	50	mg/Litre
Anionic Detergent (Det Code 461)	30	mg/Litre
COD Total (Det Code 92)	2000	mg/Litre
Sulphide - Total (Det Code 167)	1000	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre
Tot Perchloric Acid	10	mg/Litre
Tot Tetra Methyl Ammonium Hydroxide	10	mg/Litre
Cerium	10	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
70	m3/Day	5	m3/Hr			6	10

CONSENT No.388 of 2002

DWR CYMRU CYFYNGEDIG
WATER INDUSTRY ACT 1991

CONDITIONAL CONSENT TO THE DISCHARGE OF TRADE EFFLUENT TO THE PUBLIC SEWER

TO: TOILET HIRE UK LTD.

the Owner and/or Occupier of the trade premises (hereinafter called "the Occupiers") whose registered office is situated at **20 THE PARKS, NEWTON-LE-WILLOWS**

RECITALS

1. The 9th April 2002 you applied for consent under Section 119 of the Water Industry Act 1991 for consent to discharge trade effluent from the following trade premises known as **TOILET HIRE LTD.** and situated at **28a ANEURIN BEVAN AVENUE, BRYNMENYN INDUSTRIAL ESTATE, BRIDGEND** (hereinafter, the Application) and which trade premises are for the purpose of identification only shown on the location plan attached hereto and marked "A" (hereinafter, "the said trade premises").

2. [Reference was made to the Secretary of State for Wales under Section 120 of the Water Industry Act 1991 and his Determination is dated] **N/A**

3. Compliance with the conditions hereunder shall be ascertained by reference to the method of analysis as from time to time employed by the Undertaker, its servants, agents or contractors, save where the said condition(s) otherwise expressly provide(s) **DWR CYMRU CYFYNGEDIG** ("the Undertaker) in the exercise of its powers under Section 121 of the Water Industry Act 1991, and thinking it fit to impose conditions as hereinafter appear, **GIVES ITS CONSENT** to the discharge of trade effluent from the said trade premises into the Undertaker's public sewers, **SUBJECT TO THE FOLLOWING CONDITIONS AND NOT OTHERWISE**

   (1) The public sewer into which the trade effluent may be discharged is the **150 mm** more particularly identified by means of a line coloured RED drawn on the plan attached hereto and marked "B".

Toilet Hire Ltd

SCHEDULE TWO

1. Total suspended solids shall not exceed 500 milligrams per litre.

2. Total free and/or emulsified oil and grease shall not exceed 300 milligrams per litre.

3. Total sulphate shall not exceed 1000 milligrams per litre (expressed as SO_4).

4. Total synthetic anionic detergents shall not exceed 50 milligrams per litre (expressed as Manoxol OT)

5. Formaldehyde shall not exceed 10 milligrams per litre

pH 6 – 10

Max Flow 2.5 m^3 / day
2.5 litres / sec

CONSENT No.383 of 2002

DWR CYMRU CYFYNGEDIG
WATER INDUSTRY ACT 1991

CONDITIONAL CONSENT TO THE DISCHARGE OF TRADE EFFLUENT TO THE PUBLIC SEWER

TO: HARMAN BECKER AUTOMOTIVE SYSTEMS

the Owner and/or Occupier of the trade premises (hereinafter called "the Occupiers") whose registered office is situated at **4TH FLOOR, WINDSOR HOUSE, PEPPER ST., CHESTER.**

RECITALS

1. The 21st January 2002 you applied for consent under Section 119 of the Water Industry Act 1991 for consent to discharge trade effluent from the following trade premises known as **HARMAN BECKER AUTOMOTIVE SYSTEMS** and situated at **BENNETT ST., BRIDGEND INDUSTRIAL ESTATE, BRIDGEND.** (hereinafter, the Application) and which trade premises are for the purpose of identification only shown on the location plan attached hereto and marked "A" (hereinafter, "the said trade premises").

2. [Reference was made to the Secretary of State for Wales under Section 120 of the Water Industry Act 1991 and his Determination is dated] **N/A**

3. Compliance with the conditions hereunder shall be ascertained by reference to the method of analysis as from time to time employed by the Undertaker, its servants, agents or contractors, save where the said condition(s) otherwise expressly provide(s) **DWR CYMRU CYFYNGEDIG** ("the Undertaker) in the exercise of its powers under Section 121 of the Water Industry Act 1991, and thinking it fit to impose conditions as hereinafter appear, **GIVES ITS CONSENT** to the discharge of trade effluent from the said trade premises into the Undertaker's public sewers, **SUBJECT TO THE FOLLOWING CONDITIONS AND NOT OTHERWISE**

   (1) The public sewer into which the trade effluent may be discharged is the **150 mm** more particularly identified by means of a line coloured RED drawn on the plan attached hereto and marked "B".

Hamar Becker Ltd

SCHEDULE TWO

1. Total suspended solids shall not exceed 400 milligrams per litre.

2. Total sulphate shall not exceed 1000 milligrams per litre (expressed as SO_4).

3. Total Cobalt shall not exceed 2 milligrams per litre

4. Total Nickel shall not exceed 2 milligrams per litre.

5. Total Fluoride shall not exceed 30 milligrams per litre

(6) pH 6 - 10

Max. Flow 20 m^3 | day
2 m^3 | hr.

CONSENT No. 373 of 2001

DWR CYMRU CYFYNGEDIG
WATER INDUSTRY ACT 1991

CONDITIONAL CONSENT TO THE DISCHARGE
OF TRADE EFFLUENT TO THE PUBLIC SEWER

TO: EUROCARE ENVIRONMENTAL SERVICES LTD

the Owner and/or Occupier of the trade premises (hereinafter called "the Occupiers") whose registered office is situated at **4 SOUTH WARDPARK COURT, WARDPARK SOUTH INDUSTRIAL ESTATE, CUMBERNAULD, GLASGOW.**

RECITALS

1. The 8th day of March 2001 you applied for consent under Section 119 of the Water Industry Act 1991 for consent to discharge trade effluent from the following trade premises known as **EUROCARE ENVIRONMENTAL SERVICES LTD** and situated at **ANEURIN BEVAN AVENUE, BRYNMENYN INDUSTRIAL ESTATE, BRIDGEND, MID GLAMORGAN** (hereinafter, the Application) and which trade premises are for the purpose of identification only shown on the location plan attached hereto and marked "A" (hereinafter, "the said trade premises").

2. [Reference was made to the Secretary of State for Wales under Section 120 of the Water Industry Act 1991 and his Determination is dated] N/A

3. Compliance with the conditions hereunder shall be ascertained by reference to the method of analysis as from time to time employed by the Undertaker, its servants, agents or contractors, save where the said condition(s) otherwise expressly provide(s) **DWR CYMRU CYFYNGEDIG** ("the Undertaker) in the exercise of its powers under Section 121 of the Water Industry Act 1991, and thinking it fit to impose conditions as hereinafter appear, **GIVES ITS CONSENT** to the discharge of trade effluent from the said trade premises into the Undertaker's public sewers, **SUBJECT TO THE FOLLOWING CONDITIONS AND NOT OTHERWISE**

   (1) The public sewer into which the trade effluent may be discharged is the 225mm sewer more particularly identified by means of a line coloured RED drawn on the plan attached hereto and marked "B".

Eurocare Environmental Ltd.

SCHEDULE TWO

(1) Total suspended solids shall not exceed 600 milligrams per litre.

(2) Total sulphate shall not exceed 1000 milligrams per litre (expressed as SO_4).

(3) The chemical oxygen demand of the trade effluent after one hour quiescent settlement at pH 7 shall not exceed 3000 milligrams per litre.

(4) Total ammonia shall not exceed 300 milligrams per litre (expressed as N).

(5) pH 6 - 10

Max Flow 9.6 m^3/day.
0.2 litres/sec.

CONSENT NO.	BB3006701

ASIANTAETH YR AMGYLCHEDD CYMRU
ENVIRONMENT AGENCY WALES

WATER RESOURCES ACT 1991

SECTION 88 – SCHEDULE 10

(AS AMENDED BY THE ENVIRONMENT ACT 1995)

VARIATION OF CONSENT TO DISCHARGE

TO: Environment Quality Scientist
Dwr Cymru Cyfyngedig
Pentwyn Road
Nelson
Treharris
CF46 6LY

In pursuance of an application by the consent holder for variation of consent, the **ENVIRONMENT AGENCY** ("The Agency") in pursuance of its powers under the Water Resources Act 1991 **HEREBY VARIES ITS CONSENT** to the making a discharge **OF SECONDARY TREATED SEWAGE EFFLUENT**, as follows:

SECONDARY TREATED SEWAGE EFFLUENT incorporating the requirements of the URBAN WASTE WATER TREATMENT REGULATIONS (UWWTR) 1994

With respect to Variation of Consent No. BB3006701 issued on the 22nd day of December 2000

FROM: PEN Y BONT WWTW

AT: PORTOBELLO ROAD, OGMORE BY SEA

TO: AFON OGWR

HEREAFTER SUBJECT TO the conditions set out in the following schedule (s):

SECONDARY TREATED SEWAGE	**BB3006701 01**
UWWT Regulations 1994	**BB3006701 /U**

Subject to the provisions of Paragraphs 7 and 8 of Schedule 10 of the Water Resources Act 1991, no notice shall be served by the Agency, which alters the effect of variations made to this consent, without the agreement in writing of the consent holder, during a period of 4 years from the date this variation is issued.

This variation of consent is issued and takes effect on the 27th day of March ,2003

Signed.....

Hamish Osborn
Team Leader Environment Management

Asiantaeth yr Amgylchedd Cymru
Glan Tawe, 154 Ffordd Sant Helen, Abertawe, Gorllewin Morgannwg, SA1 4DF
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Environment Agency Wales
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CONSENT NO.	BB3006701
SCHEDULE NO	BB3006701 01
.ISSUE DATE	27th March ,2003

ASIANTAETH YR AMGYLCHEDD CYMRU
ENVIRONMENT AGENCY WALES

CONDITIONS OF CONSENT TO DISCHARGE

SECONDARY TREATED SEWAGE EFFLUENT ("the Discharge")

FROM: **PEN Y BONT WwTW**

NATURE

1. (a) The Discharge shall consist solely of secondary treated sewage effluent which has been disinfected by means of ultra violet (UV) irradiation. For the purpose of this consent, "disinfection" is defined as the use of a process designed specifically to reduce the number of viable, potentially infectious micro-organisms in the effluent.

(b) Discharge shall be disinfected by means of a broad spectrum medium pressure artificial UV source with at least 85% of available UV irradiation emitted in the wavelength range 200 to 300nm. A measured applied UV dose of 30 mJ/cm2 [calculated at a UV transmittance of 45%] must be exceeded subject to condition (c) and (d).

(c) The measured applied UV dose must exceed the limit set out in condition (b) for at least 99% of the measurements (as required by condition 19(b)I b), c), d) in any period of 12 consecutive months.

(d) No more than 10% of measurements taken consecutively during any 24 hour period from midnight to midnight should fall below 15 mJ/cm^2.

(e) The period when the measured applied UV dose limit is less than the limit set out in conditions (b) / (d) shall not be used by the Consent Holder for the maintenance of the UV plant. Maintenance is defined in the UV Code of Practice attached to this Consent.

FAILURE OF UV MEASUREMENT SYSTEMS

2. In the event of failure of the flow monitor or UV transmittance used in control of the UV dosing system system:

(a) the maximum available number of duty banks of UV lamps shall be automatically activated;

(b) the minimum applied UV dose at maximum effluent flow rates at a calculated UV transmittance (at 254nm) of 45%, shall not be less than 30mJ/cm^2.

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LOCATION

3. The Discharge shall be made in the manner and at the place specified as:

   (a) discharging via a 1675 millimetre diameter pipe;

   (b) discharging to Afon Ogwr;

   (c) at National Grid Reference SS 87825 76955;

   (d) shown marked 'Water Resources Act Outfall' on Plan BB3006701 attached as Annex 4.

SAMPLING POINTS

4. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SS 87454 76702, as shown marked 'Final Effluent Sample Point' on Plan BB3006701, so that a representative sample of the Discharge may be obtained. The Consent Holder shall ensure that all constituents of the Discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the discharge taken at the said sampling point is a sample of what was discharging into controlled waters.

VOLUME

5. The volume of the Discharge shall not exceed 138240 cubic metres per day.

6. The Dry Weather Flow of the Discharge shall not exceed 89856 cubic metres per day.

   For the purpose of this condition Dry Weather Flow shall mean the average daily flow to the treatment works during seven consecutive days without rain (excluding a period which includes public holidays) following seven days during which the rainfall did not exceed 0.25 millimetres on any one day.

7. The rate of discharge shall not exceed 1600 litres per second.

8. A continuous flow monitoring and recording system, to a specification provided by the Agency, with on-site visual display from which readings can be readily obtained by the Agency, shall be provided and operated to record the daily volume and instantaneous flow at the discharge point.

9. As soon as practicable after completion of the flow system installation the Consent Holder shall employ an independent expert to certify that the installation complies with the Agency's specification. The Consent Holder shall satisfy himself as to the

professional competence of the expert. A copy of the certifier's report shall be provided to the Agency when it is available.

10. Records of the flow readings shall be maintained by the Consent Holder and shall be provided to the Agency when requested, in a format specified by the Agency.

11. The Consent Holder shall produce and maintain a quality control manual, approved by the independent expert and to the satisfaction of the Agency, specifying procedures for the calibration, operation and maintenance of the flow monitoring system. The flow system shall be calibrated, operated and maintained by the Consent Holder in accordance with the provisions of the manual. The Consent Holder shall keep a record of these procedures available for inspection by the Agency and provide a copy to the Agency on request.

12. The Consent Holder shall record all failures of the continuous flow system and any other breaks in the flow record. The reasons for these failures and breaks shall be recorded and all steps taken to prevent a re-occurrence. The Consent Holder shall ensure that as far as possible the recorder remains fully operational at all times. Any failures shall be remedied as soon as possible.

13. Flows of the discharge shall be measured at the Final Effluent Sample Point NGR SS 87454 76702.

COMPOSITION

14. (a) Subject to paragraph (b) below, the Discharge shall not contain more than:

(i) 25 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea);

(ii) 35 milligrammes per litre of suspended solids (measured after drying at 105°C.

Summer

(iii) 6 milligrammes per litre of ammoniacal nitrogen (expressed as N);

Winter

(iv) 23 milligrammes per litre of ammoniacal nitrogen (expressed as N);

(b) The limit for any of the relevant parameters set out in paragraph (a) above may be exceeded, where, in any series of samples of the Discharge taken at regular but randomised intervals in any period of twelve consecutive months as listed in Column 1 of the table at Annex 1 to this consent, no more than the relevant number of

samples, as listed in Column 2 of the said table, exceed the applicable limit for that relevant parameter.

15. The Discharge shall not contain more than:

(a) 60 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea);

(b) 42 microgrammes per litre of Copper (total)

(c) 0.74 microgrammes per litre of Cadmium (total)

Summer

(d) 23 milligrammes per litre of ammoniacal nitrogen (expressed as N).

Winter

(e) 51 milligrammes per litre of ammoniacal nitrogen (expressed as N).

For the purposes of Conditions 14 and 15 above, Summer shall mean 1st April to 31st October. Winter shall mean 1st November to 31st March.

16. As far as is reasonably practicable, the works shall be operated so as to prevent the Discharge from containing any significant trace of visible oil and grease.

WORKS OPERATION

17. The works shall be operated and the effluent shall be treated in a manner which, so far as reasonably practicable, minimises the polluting effects of the discharge made from the works on controlled waters.

This condition does not require -

(a) any higher standard to be achieved in relation to any characteristic of the discharge which is specifically regulated by Conditions 14, 15 and 16 than is required by those conditions;

(b) any alteration of the works or a change in the type of treatment used.

MAINTENANCE

18. The works shall be operated and maintained in accordance with good operational practice such that:

(a) it remains fully operational except at times of unavoidable mechanical or electrical breakdown which shall be attended to, and the Agency informed of the failure, as soon as practicable after the failure;

(b) following a failure all equipment shall be returned to normal operation as soon as practicable;

(c) tanks shall be desludged at sufficient frequency and in such a manner to prevent excessive carryover of suspended solids.

UNUSUAL WEATHER CONDITIONS

19. (a) No sample of the discharge, taken at a time when unusual weather conditions are adversely affecting the operation of the sewage treatment works, shall be taken into account in deciding whether or not conditions 14, 15, 16 or 17 of this consent have been complied with.

(b) For the purpose of this condition "unusual weather conditions" shall include:

(i) low ambient temperatures as evidenced by effluent temperatures of 5°C or less, or by the freezing of mechanical equipment in the works;

(ii) significant snow deposits;

(iii) tidal or fluvial flooding;

(iv) weather conditions causing unforeseen loss of power supply to the sewage treatment which could not be ameliorated by the reasonable provision and operation of standby generation facilities.

(c) On any occasion where unusual weather conditions adversely affect the operation of the sewage treatment works, the Consent Holder shall use its best endeavours to mitigate that adverse affect.

(d) For a sample of the discharge to be considered for the purposes of (a) above, the Consent Holder shall notify the Agency by telefax or telephone as soon as unusual weather conditions are known to have adversely affected operations and shall confirm the circumstances in writing as soon as possible thereafter (and in any event within 14 days of the occurrence of such conditions). That notification shall include a full description of the unusual weather conditions and their impact on the operation of the works.

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RECORDING AND REPORTING

20. (a) **Maintenance Programme**

I. The consent holder shall establish and operate a documented maintenance programme including the method and frequency of cleaning and replacement of UV lamps, and flow meters, and record all non-routine actions undertaken that may have adversely affected effluent quality. Details of the maintenance programme shall be provided to the Agency for agreement. Copies of the programme shall be made available for inspection by the Agency's officers at all reasonable times.

II. The Consent Holder shall keep records of the maintenance undertaken (both routine and non-routine). Copies of these records shall be maintained by the Consent Holder and kept available for inspection by the Agency's officers at all reasonable times.

III. On request the consent holder shall supply the Agency with a written report on the maintenance and all non-routine actions that may have adversely affected effluent quality.

(b) **UV Process Monitoring and Reporting**

I. Continuous recorders, with on-site visual display from which readings may be readily obtained, shall be provided and maintained by the Consent Holder enabling the following to be measured and recorded at 15 minute intervals:

a) the instantaneous flow rate through each UV irradiation channel;
b) the instantaneous applied UV dose for each UV irradiation channel;
c) any other parameters used in calculating the UV dose.

II. Copies of the records shall be maintained by the Consent Holder for a minimum of 2 years or such longer time as the Agency may from time to time specify and be kept at a nominated place available for inspection by the Agency's officers at all reasonable times.

III. The Consent Holder shall supply to the Agency, 6 weeks in arrears, in a format specified by the Agency, on a monthly basis, the records of the readings specified in condition 20(b) I.

(c) **Exception Reports**

The Consent Holder shall supply to the Agency at monthly intervals, or upon request, a written report, detailing all occurrences where:

I. there were any failures of any measurement system used to control the UV dosing system;

II. the external power supply to the UV disinfection system was interrupted;

III. a Discharge of sewage effluent was made which had not been subjected to the required UV dose as specified in conditions 1(d) and 2 of this consent.

IV. The report shall detail the reasons why the situation occurred, and the actions taken by the Consent Holder. The report shall include an assessment of what measures can be adopted in the future to minimise such occurrences.

V. The Agency, if satisfied that the cause is an emergency and outside the control of the Consent Holder, and that all possible measures were taken to minimise the impact of the discharge on controlled waters, shall exclude the measurements for the period for compliance purposes with condition 1(d).

(d) **Disinfection Efficacy Monitoring**

The Consent Holder shall carry out the monitoring programme as detailed below, unless otherwise notified in writing by the Agency. The results of the monitoring programme are to be supplied to the Agency in a format specified by the Agency, on a monthly basis, 6 weeks in arrears.

I. Sample points as shown on attached plan:

A Crude influent to sewage treatment works at NGR **SS 87668 76823**.
B Biologically/secondary treated sewage effluent before UV disinfection at NGR **SS 87454 76702**.
C Biologically/secondary treated sewage effluent after UV disinfection at NGR **SS 87469 76276**.

II. Microbiological determinands and frequencies (Agency Standard Analytical Methods to be employed, including AQC):

1) **Faecal Coliforms** - fortnightly at sample points A, B and C;
2) **Total Coliforms** - fortnightly, at sample points A, B and C;
3) **Faecal Streptococci** - fortnightly, at sample points A, B and C;
4) **Salmonella** - fortnightly, at sample points B and C;
5) **Representative enteroviruses** - fortnightly, at sample points B and C
6) **F-specific bacteriophage** - fortnightly, at sample points A, B and C.

Following two consecutive years of full consent compliance, the Agency will review the data annually and notify in writing the Consent Holder of any resulting change to the monitoring regime.

III. Other determinands and frequencies.

The measurement of all determinands below shall coincide with the measurement of microbial determinands. At each sample point, samples for analysis should be sub-sampled from a single bulk sample. Where this cannot be achieved, the sampling regime shall be clearly recorded.

a) The flow through each UV irradiation channel shall be measured.
b) The applied dose shall be recorded in each UV irradiation channel.
c) The measured UV transmittance at 254nm at the inlet shall be measured by laboratory analysis of samples collected from sample point B.
d) Suspended solids shall be measured at sample point B or C.
e) BOD (ATU) shall be measured at sample point B or C.

21. The consent holder shall notify the Agency in writing if any planned or known introduction or material change in respect of discharges from trade premises to the sewerage system occurs, that may increase or introduce into the effluent any "dangerous substance" (set out in Annex 2 to this notice as updated from time to time and notified to the Consent Holder in writing), and any other substance considered by the Consent Holder as having or likely to have a significant effect on the receiving waters.

TELEMETRY

22. A telemetry alarm system connected to a 24-hour manned station shall be provided and maintained by the Consent Holder to provide a warning in the event that:

(a) the external power supply to the UV disinfection system has been interrupted;

(b) failure of any measurement system used to control the UV dosing system has occurred;

(c) a Discharge of sewage effluent was made which had not been subjected to the required UV dose as specified in conditions 1(d) and 2 of this consent.

EMERGENCY NOTIFICATION

23. The Consent Holder shall notify the Agency in the event of a Discharge of sewage effluent which has not been subjected to the required UV dose as specified in conditions 1(d) and 2 of this consent, or of power failure causing loss of secondary treatment. Such notification must be made as soon as practicable and no later than 24 hours after the event, and shall detail the reasons why the situation occurred, and the actions taken by the Consent Holder.

POWER

24. Full stand-by power generation facilities shall be provided and maintained by the Consent Holder in good working order to enable automatic resumption of power to the UV disinfection system in the event of external power supply failure to the UV disinfection plant.

THE DANGEROUS SUBSTANCES LIST I CONDITION

25. (a) The quantity of List I Substances (as defined in the Dangerous Substances Directive 76/464/EEC) in the Discharge shall not increase above:

i the levels specifically regulated by condition 15

THE DANGEROUS SUBSTANCE LIST II CONDITION

26. (a)The quantity of List II Substances (as defined in the Dangerous Substances Directive 76/464/EEC) in the Discharge shall not increase above

i the levels specifically regulated by condition 15

ii the levels in the Discharge on the date of effect of this consent where no specific level is authorised; and

(b) notwithstanding (a) above, the Discharge shall not contain quantities of any List II Substance such as to cause or contribute to the concentration of that substance in the receiving water exceeding the relevant Environmental Quality Standard (EQS).

SUBSTANTIAL CHANGE

27. (a) A discharge shall not be made from the works if it would cause a significant increase in the polluting effects of the discharge on controlled waters as a result of a new or altered discharge of trade effluent into the works.

(b) A discharge of trade effluent into the works is new if -

(i) it is made by the sewerage undertaker and is of a kind not made into the works by the undertaker immediately before the date of effect of this consent; or

(ii) it is made by a third party and the discharge is authorised on or after that date.

(c) A discharge of trade effluent into the works is altered if -

(i) it is made by the sewerage undertaker and its composition or quantity changes significantly on or after the date of effect of this consent ; or

(ii) it is made by a third party and the alteration of the discharge is authorised on or after that date.

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ANNEX 1

TABLE

Column 1 Number of samples Taken in any period of 12 months	Column 2 Maximum number of samples permitted to exceed limit for given Determinand
4-7	1
8-16	2
17-28	3
29-40	4
41-53	5
54-67	6
68-81	7
82-95	8
96-110	9
111-125	10
126-140	11
141-155	12
156-171	13
172-187	14
188-203	15
204-219	16
220-235	17
236-251	18
252-268	19
269-284	20
285-300	21
301-317	22
318-334	23
335-350	24
351-365	25

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U3(b) Outlet

An appropriately labelled sample point shall be provided and maintained at National Grid Reference SS 87454 76702, as shown marked 'UWWTR and Water Resources Act Final Effluent Sample point' on the attached Plan BB3006701, or some other point as agreed in writing with the Agency, so that a representative sample of the Discharge may be obtained.

(d) An increase in the polluting effects of the discharge on controlled waters is not significant for the purposes of this condition if it relates to any characteristics of the discharge which are specifically regulated by conditions 14, 15 or 16 of this consent schedule, but it may be significant if it is caused by a change in some other characteristic of the discharge.

(e) For the purposes of this condition "trade effluent" means -

(i) any discharge by the sewerage undertaker other than

(1) domestic sewage from premises connected directly or indirectly to the works; or
(2) surface water run-off;

(ii) any discharge by a third party which is authorised under Chapter III of Part IV of the Water Industry Act 1991 or which is only accepted as a result of a contract with the sewerage undertaker.

UNAUTHORISED DISCHARGE

28. (a) A discharge made from the works shall not contain any poisonous, noxious or polluting matter or solid waste matter which is attributable to any unauthorised discharge into the works.

(b) A discharge into the works is unauthorised if it is made by a third party and either there is no obligation to receive it or conditions subject to which there is an obligation to receive it are not observed.

(c) Nothing in this, or any other, condition of this consent prevents anyone from relying on any defence available to them under Section 87 of the Water Resources Act 1991.

POWER TO MODIFY CONDITION

29. If the Agency believes that the load of one or more Dangerous Substances has increased, it may at any time after the issue of this discharge consent, modify this consent by written notification to include specific limits for List I and List II Substances as defined in the Dangerous Substances Directive (76/464/EEC), or any Substance with a non-statutory EQS. This includes any period during which the Agency would otherwise be prohibited from modifying the consent.

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ENVIRONMENT AGENCY WALES

CONDITIONS OF CONSENT TO DISCHARGE

SECONDARY TREATED SEWAGE EFFLUENT ("the Discharge")

FROM: **PEN Y BONT WwTW**

URBAN WASTE WATER TREATMENT REGULATIONS

U0 (a) The Consent Holder shall comply with the Urban WasteWater Treatment (England and Wales) Regulations 1994 ('the Regulations').

(b) For the purpose of conditions U1 and U2 below, interpretations and references to a numbered regulation or Schedule shall have the meaning as in the Regulations, unless otherwise indicated.

U1 (a) The Discharge derives from an agglomeration with a population equivalent of between 10,000 and 150,000, discharging to freshwaters.

(b) The Consent Holder shall inform the Agency in writing of any change, or proposed change, to the population equivalent such as would make a material change to the application of the Regulations and shall, on request, inform the Agency in writing of the actual population equivalent.

(c) The Discharge shall be subject to Regulation 5(1) and shall satisfy the relevant requirements of Part I of Schedule 3.

U2 (a) The Consent Holder shall provide apparatus for the purpose of:

(i) measuring or recording the volume, rate of flow, nature, composition or temperature, and
(ii) collecting samples of any waste water, as is necessary to ensure compliance with paragraph (b) below.

(b) The Consent Holder shall monitor the Discharge to verify compliance with the requirements of condition U1(c) above in accordance with control procedures as set out in Part II of Schedule 3.

(c) The Consent Holder shall provide to the Agency any information collected in complying with paragraph (b) above in a manner agreed with the Agency.

U3(a) **Inlet**
An appropriately labelled sample point shall be provided and maintained at National Grid Reference SS 87668 76823, as shown marked 'Crude Sewage Sample point' on the attached Plan BB3006701, or some other point as agreed in writing with the Agency, so that a representative sample of the Influent may be obtained.

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ASIANTAETH YR AMGYLCHEDD CYMRU
ENVIRONMENT AGENCY WALES

ANNEX 2

1. Mercury and its compounds
2. Cadmium and its compounds
3. Hexachlorocyclohexane (lindane and related compounds)
4. Carbon tetrachloride
5. DDT (the isomers of 1,1,1-trichloro-2,2 bis{p-chlorophenyl} ethane)
6. Pentachlorophenol (PCP)
7. Aldrin
8. Dieldrin
9. Endrin
10. Isodrin
11. Hexachlorobenzene (HCB)
12. Hexachlorobutadiene (HCBD)
13. Chloroform
14. Polychlorinated biphenyls
15. Dichlorvos
16. 1,2-Dichloroethane
17. Trichlorobenzene
18. Atrazine
19. Simazine
20. Tributyltin compounds
21. Triphenyltin compounds
22. Trifluralin
23. Fenitrothion
24. Azinphos-methyl
25. Malathion
26. Endosulfan
27. Lead
28. Chromium
29. Zinc
30. Copper
31. Nickel
32. Arsenic
33. *Iron
34. *pH outside range 5.5 to 9.0
35. *Boron
36. Vanadium
37. PCSD'S
38. Cyfluthrin
39. Sulcofuron
40. Flucofuron
41. Permethrin
42. 4-Chloro-3-methyl-phenol
43. 2-Chlorophenol
44. 2,4-Dichlorophenol
45. 2,4-D (ester)
46. 2,4-D (non ester)
47. 1,1,1-Trichloroethane
48. 1,1,2-Trichloroethane
49. Bentazone
50. Benzene
51. Biphenyl
52. Chloronitrotoluenes
53. Demeton
54. Dimethoate
55. Linuron
56. MCPA
57. Mecoprop
58. Mevinphos
59. Napthalene
60. Omethoate
61. Toluene
62. Triazophos
63. Xylene
64. Cyanide
65. Azinphos-ethyl
66. Fenthion
67. Parathion
68. Parathion-methyl
69. Trichloroethylene
70. Tetrachloroethylene
71. Dioxins
72. PAHs
73. Nonyl phenol
74. Nonyl phenyl ethoxylate
75. Di-ethylhexyl phthalate
76. Bisphenol-A
77. Diazinon
78. Chlorfenvinphos
79. Chlorotoluron
80. Isoproturon
81. Diuron
82. Propetamphos
83. Flumethrin
84. Amitraz
85. High-Cis Cypermethrin
86. Cyromazine
87. Deltamethrin
88. Cypermethrin

This list is applicable as at 1 December 1998 and will be updated as and when changes to the relevant legislative requirements occur.

*Notification to the Agency by the Consent holder is only required in respect of changes to trade effluents likely to cause significant changes to the pH value, and/or iron or boron concentrations, of the crude sewage.

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ASIANTAETH YR AMGYLCHEDD CYMRU
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ANNEX 3

UV code of practice for:

PEN Y BONT WwTW
CONSENT NO. BB3006701

The UV disinfection system shall be provided and maintained to ensure that its hydraulic characteristics and the path length of UV irradiation are such that, during the required period of disinfection, the effluent is subjected to the UV dose rate specified in the consent.

The UV disinfection system and stand-by power facilities shall be operated so as to minimise the frequency and duration of an emergency discharge of sewage effluent which has not been subjected to the required UV dose (as specified in the consent).

The applied and received UV dose (as defined in the Calculation of UV dose) shall be determined from

i. the flow rate of effluent through the UV disinfection system (l/s);

ii. the reactor volume;

iii. the theoretical UV intensity at end of lamp life at an assumed UV transmittance for the effluent (at 254nm) of 45%

Maintenance

a. A maintenance programme, including the method and frequency of cleaning and replacement of the UV lamps/ UV radiation monitors, shall be undertaken by the Consent Holder as agreed in writing with the Agency.

b. Any failure to meet the requirements of the agreed maintenance programme shall be advised to the Agency as soon as practicable and a report providing an explanation of the circumstances provided to the Agency within 2 weeks.

c. The Consent Holder shall keep records of the maintenance undertaken (both programmed and un-programmed) and shall include the measured UV intensity readings immediately before and immediately after each UV lamp/ UV monitor cleaning or replacement. Copies of these records shall be maintained by the Consent Holder and kept available for inspection by the Agency's officers at all reasonable times.

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Calculation of UV dose

Definitions

For each bank of UV lamps, UV dose is defined as the product of UV light intensity (impacting on wastewater passing through the bank) and the retention time (of wastewater passing through the bank).

For the purposes of consent, the following terms are defined for each UV irradiation bank:

"reactor volume"
is the volume of wastewater in the bank at any given time;

"adjusted retention time"
is the reactor volume divided by the measured rate of flow through the UV bank;

"measured UV intensity"
is the average UV intensity @ 254nm for the effluent measured (at positions within the reactors agreed with the Agency in writing) for each operating bank of UV lamps.

"theoretical UV intensity"
is the predicted average UV intensity across the reactor volumes, being delivered by the operating lamps at the UV transmittance of 45% (as agreed with the Agency in writing) for the effluent (at 254nm) (predicted from the rated output (mW) of the UV lamps at end of lamp life (cleaned) which are energised;

Calculations

i.	**Received UV Dose per Bank (mJ/cm^2)**	=	**Measured UV Intensity (mW/cm^2)**	X	**Adjusted Retention Time (s)**
ii.	**Applied UV Dose per Bank (mJ/cm^2)**	=	**Theoretical UV Intensity (mW/cm^2)**	X	**Adjusted Retention Time (s)**

The UV dose (applied or received) for each channel is the sum of the UV doses for each operational bank in that channel.

The method of measuring/estimating UV intensity at this site must be clearly defined.

ASIANTAETH YR AMGYLCHEDD CYMRU
ENVIRONMENT AGENCY WALES

Eich cyf/Your ref.

Ein cyf/Our ref. 2/CS/LL/BB3006701

Dyddiad/Date: 28 March 2003

Lewis Keil
Dŵr Cymru Cyfyngedig
Pentwyn Road
Nelson
Treharris
CF46 6LY

Dear Sir,

WATER RESOURCES ACT 1991, SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995) APPLICATION TO DISCHARGE SECONDARY TREATED SEWAGE EFFLUENT incorporating the requirements of the URBAN WASTE WATER TREATMENT REGULATIONS (UWWTR) 1994 BY DŴR CYMRU WELSH WATER FROM NEW PEN-Y-BONT WwTW.
APPLICATION NO: BB3006701

Further to your application for variation of consent of the Agency to discharge under the provisions of Section 88 of the Water Resources Act 1991, I enclose the Agency's formal notice of the variations made to the conditions of the consent as detailed above.

Under the present Scheme of Charges for Discharges to Controlled Waters an annual charge will be made for all consents to discharge, except where the discharge is of sewage effluent of five cubic metres or less per day. This charge is based on information derived from the conditions attached to the consent to discharge, as outlined in the enclosed leaflet. A change in conditions may therefore result in a change in annual charge, you may therefore receive a revised bill in due course.

If you are not satisfied with the new conditions of the consent you may appeal against the decision to the National Assembly for Wales at Cathays Park, Cardiff CF10 3NQ.

Please take careful note that if the holder of the consent changes, you must inform the Agency IN WRITING as soon as possible of the name of the new holder. This to ensure that the rights and charges associated with the Consent are transferred to the new holder. A certificate of Holder notice will be sent to you shortly which is designed for this purpose, and should be kept safely with the Consent until required.

Asiantaeth yr Amgylchedd Cymru
Glane Tawe, 154 Ffordd Sant Helen, Abertawe SA1 4DF
Ffon: 01792 645300, Ffacs: 01792 648652

Environment Agency Wales
Glane Tawe, 154 St Helens Road, Swansea SA1 4DF
Tel: 01792 645300, Fax: 01792 648652

If you have any queries regarding the enforcement of this consent, please do not hesitate to contact Hamish Osborn, Team Leader Environment Management, Environment Agency Wales, Glan Tawe, 154 St Helens Road, Swansea, SA1 4DF.

Yours faithfully,

GARETH DAVIES
Customer Contact Officer

Please ask for Barry Williams, ext. 3512

Enc.